NEC

UNIVERGE® SV9100

PC Programming Manual

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NEC Corporation of America
6535 N. State Highway 161
Irving, TX 75039-2402

Communications Technology Group

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Chapter 1 Introduction

PC Programming, referred to as PCPro, is an application used to manage the SV9100 system. PCPro is rich with features to help users more easily manage a chassis when compared to handset programming.

The user can perform the following when using PCPro:

- ❏ Upload/Download settings between PCPro and a chassis.
- ❏ Save settings to files that can be archived for later use.
- ❏ Program settings grouped by their relationship via standard screens.
- ❏ Generate reports that can be used to monitor settings.
- ❏ Automatically update chassis firmware remotely.
- ❏ Export settings to files for later use.
- ❏ Capture low level messages to problem solve through the Debug Terminal.

Installation

Chapter 2

SECTION 1 SYSTEM REQUIREMENTS

The process of installing PCPro is straight-forward. Just run the installation program and follow the instructions. Table 2-1 System Requirements lists the minimum system requirements necessary for install PCPro on your computer.

Table 2-1 System Requirements

System:	Minimum Requirements
CPU	CPU and Memory are dependent on the Microsoft Operating System environment used.
Memory	
OS	Vista, Windows 7 (32/64bit), Windows 8/8.1
Other	Microsoft Internet Explorer 7.0/8.0/9.0/10.0
Communication port	LAN, Modem or ISDN
Disk Space	1GB for PCPro (minimum)
TCP Port	PCPro must have TCP port 8000 open between the chassis and the host PC. Communications between PCPro and the chassis occurs on this port when uploading / downloading via LAN. The PCPro TCP port is 8000 at default, but this can be changed through the Administration>WebPro Settings section of WebPro using PRG 90-54-02. PRG 90-54-02 is not accessible from telephone programming or PCPro. The port to be used for debug should be defined in 10-20-06.

SECTION 2 DEFAULT PCPRO ACCOUNTS

When installing PCPro for the first time, the installation program creates a set of default PCPro accounts. The accounts with the user name and password to access these accounts are provided in Table 2-2 Default PCPro Accounts.

Table 2-2 Default PCPro Accounts

User Name	Password	Access Level
necii	47544	Manufacturer Mode (MF)

Table 2-2 Default PCPro Accounts

User Name	Password	Access Level
tech	12345678	Installer Mode (IN)
ADMIN1	0000	System Administrator Mode 1 (SA)
ADMIN2	9999	System Administrator Mode 2 (SB)

NOTE

An install/uninstall does not remove or modify any existing PCPro Accounts, or Connection Accounts.

In addition, the installation program will create the following default folders:

Table 2-3 Default Folders

Folder Name/Icon	Location	Description
My Databases	<install dir>\databases	Default folder where PCPro databases are saved.
DebugTerm	<install dir>\logfiles	Default folder where PCPro Debug Terminal log files are saved.
Reports	<install dir>\reports	Default folder where PCPro reports are saved.
exports	<install dir>\exports	Default folder where PCPro exported files are saved.

NOTE

An install/uninstall does notresult in the folder or any files in the folder being deleted.

SECTION 3 SOFTWARE INSTALLATION

The software can be installed from the application CD, provided with the chassis or downloaded from the web.

1. Launch the installer.

   If installing from a CD, the CD should autorun. When the splash screen is displayed, select **Install Software**.

   NOTE *If the software does not autorun, you can open the CD and select setup.exe.*

   If downloading from the website, copy the file to your computer and launch the installer.

2. When the installer launches, the InstallShield Wizard Welcome screen is displayed. Press **Next>**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

Figure 2-1 InstallShield Wizard Welcome Screen

3. The next screen is displayed indicating the default location where the files reside on your computer.

   If the default location is where you want the files located, click **Next>**. Refer to Figure 2-2 InstallShield Wizard Destination Folder (Default Location).

   If you want to change the location where the files are located, click **Change**. Refer to Figure 2-3 InstallShield Wizard Destination Folder (Change Location).

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

Figure 2-2 InstallShield Wizard Destination Folder (Default Location)

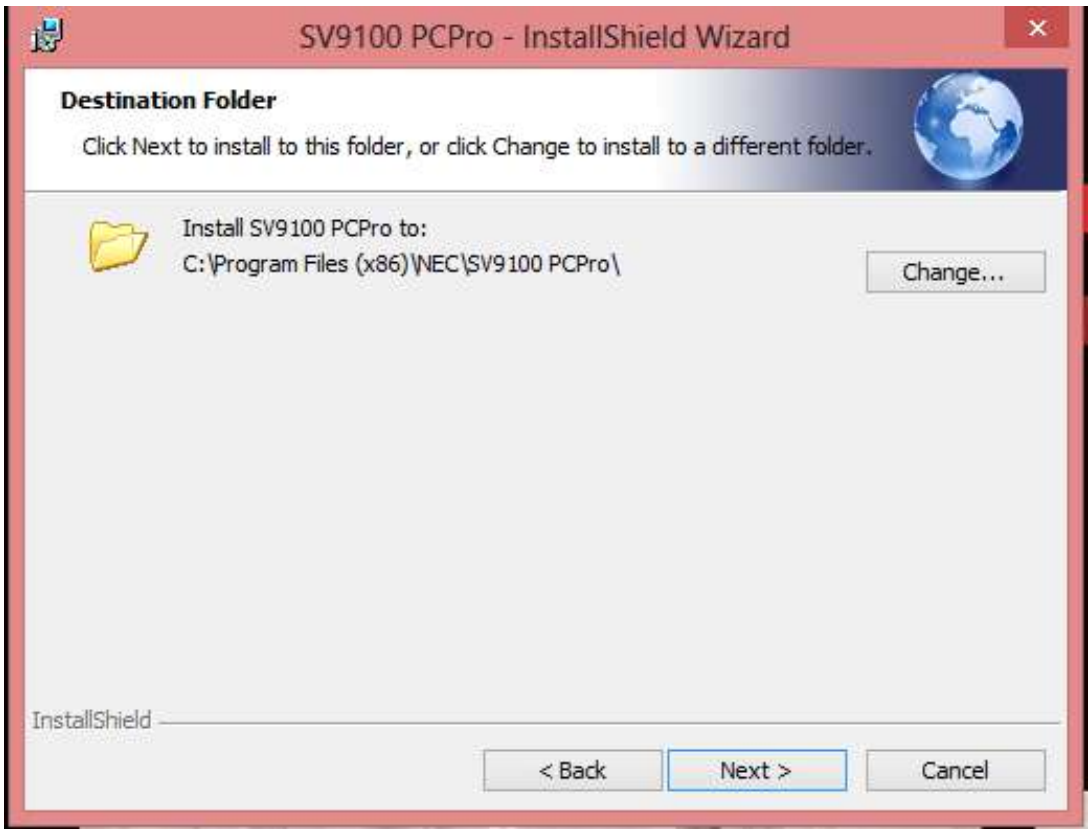
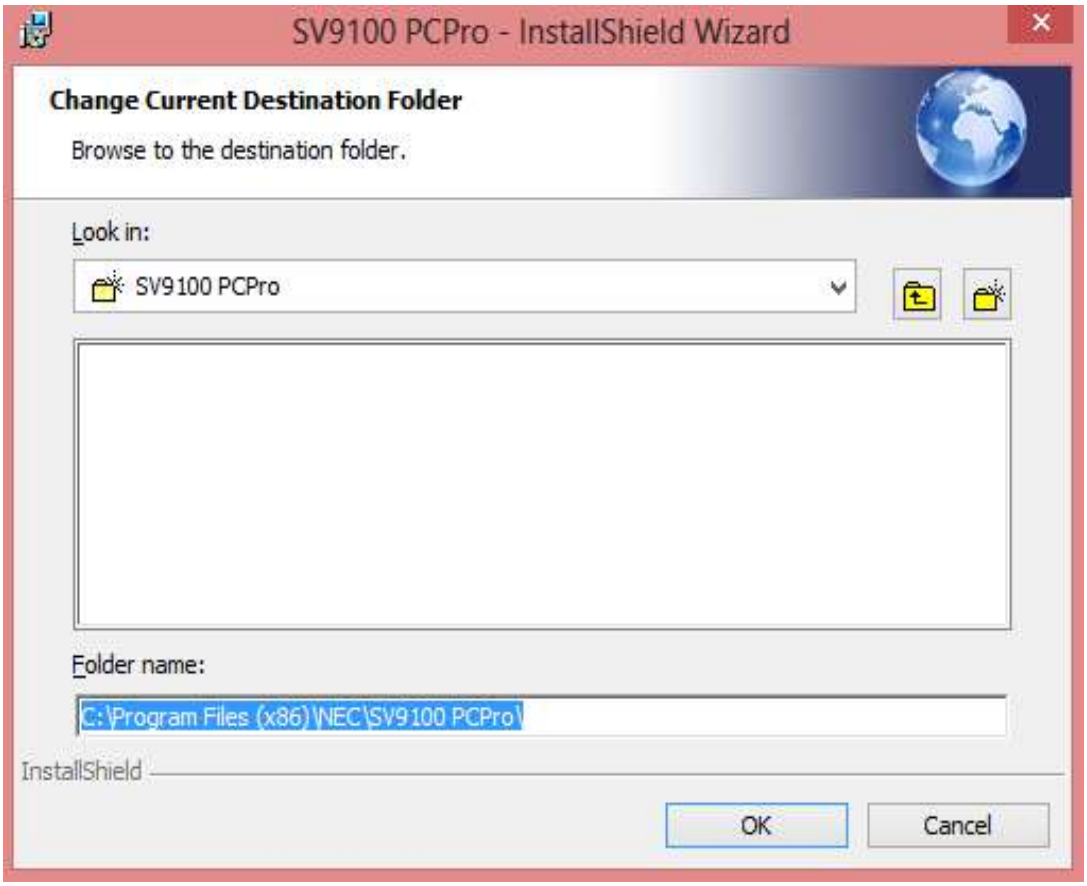


Figure 2-3 InstallShield Wizard Destination Folder (Change Location)

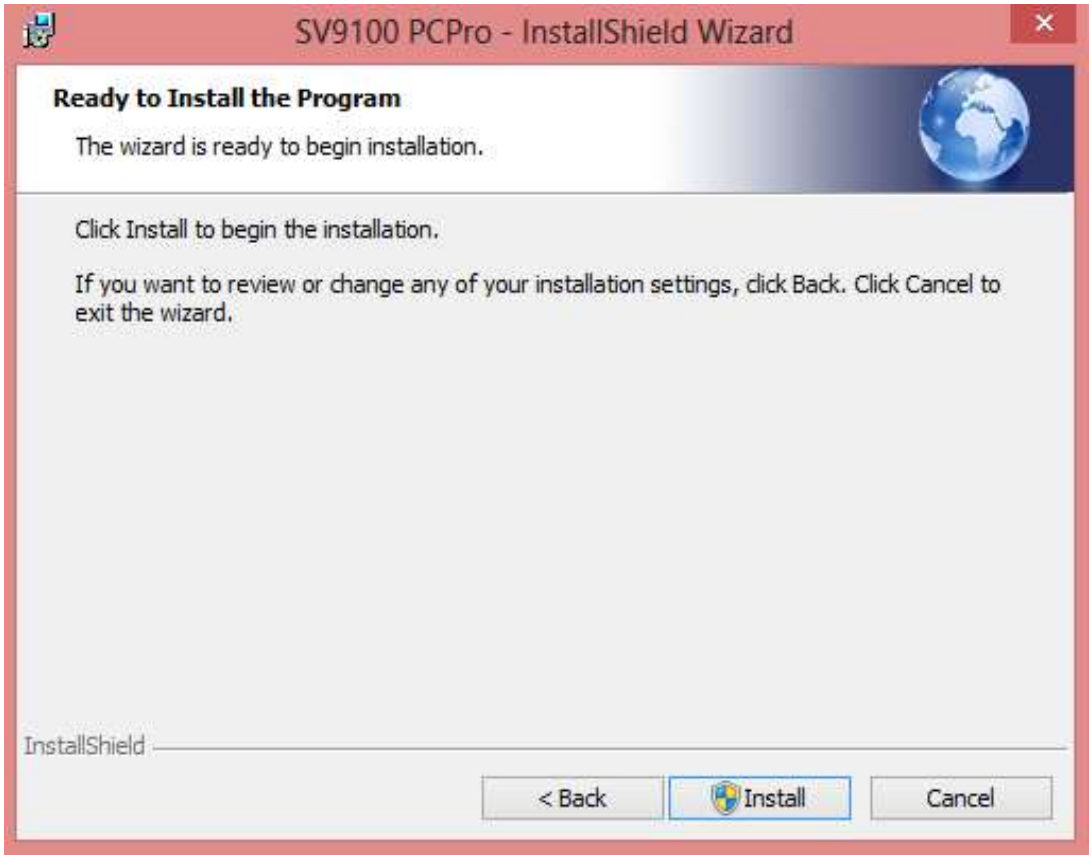


4. To install the program, click **Install**.

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

Figure 2-4 InstallShield Wizard Begin Installation



5. The program installs. Figure 2-5 InstallShield Wizard Installation Progress shows the screen you will see that indicates the progress of the installation.

   If you wish to return to the previous screen, click **<Back**.

   If you do not want to continue, click **Cancel** to abort the installation and exit the software.

Figure 2-5 InstallShield Wizard Installation Progress

6. When the installation is completed, Figure 2-6 InstallShield Wizard Finish Installation is displayed. Click **Finish**.

Figure 2-6 InstallShield Wizard Finish Installation

SECTION 4 LAUNCHING THE APPLICATION SOFTWARE

Once the application software has successfully installed you can launch the application in one of two ways:

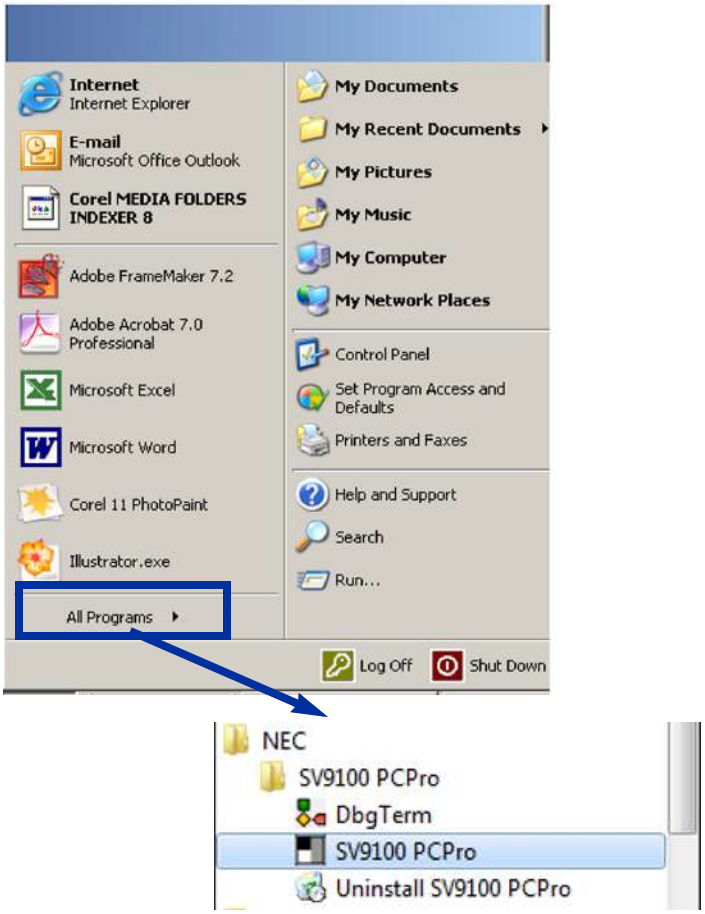
❑ Click the PCPro shortcut icon that was placed on your desktop during installation.

Figure 2-7 SV9100 PCPro Desktop Shortcut

-- OR --

❑ Select the program by clicking **Start > All Programs > NEC > SV9100 PCPro > SV9100 PCPro**.

Figure 2-8 InstallShield Wizard Launch Software



SECTION 5 LOGGING INTO THE APPLICATION

After you have launched the application, you must login using the User Name and Password. Refer to Table 2-2 Default PCPro Accounts on page 2-1 for a list of default PCPro accounts and their associated user names and passwords.

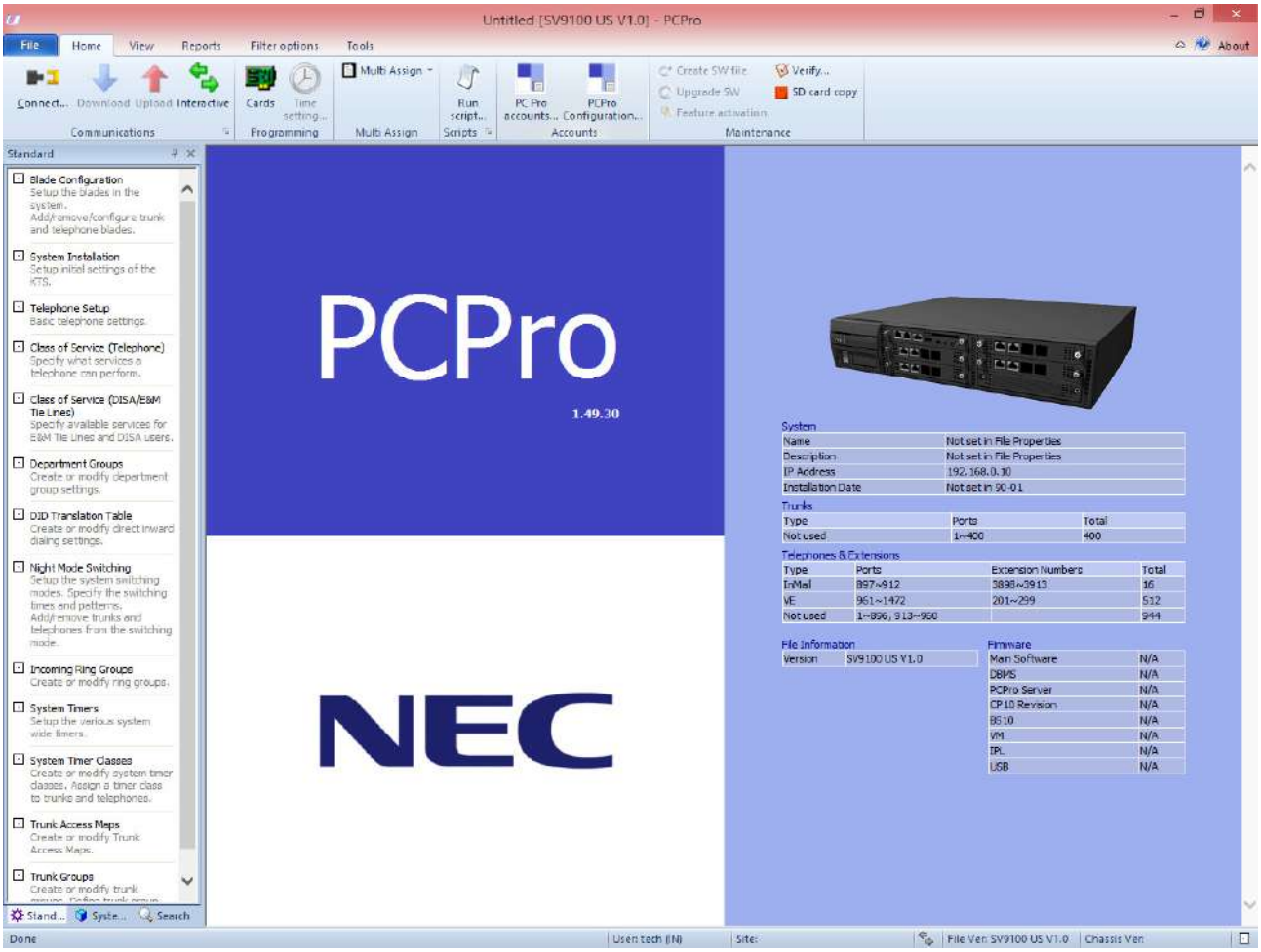
1. Enter the appropriate **User Name** and **Password** and press **OK**.

   If you do not want to continue, click **Cancel** to abort login and exit the software.

Figure 2-9 PCPro Login Screen

2. If the login is successful, the PCPro Welcome screen is displayed.

Figure 2-10 PCPro Main Menu



Application Layout

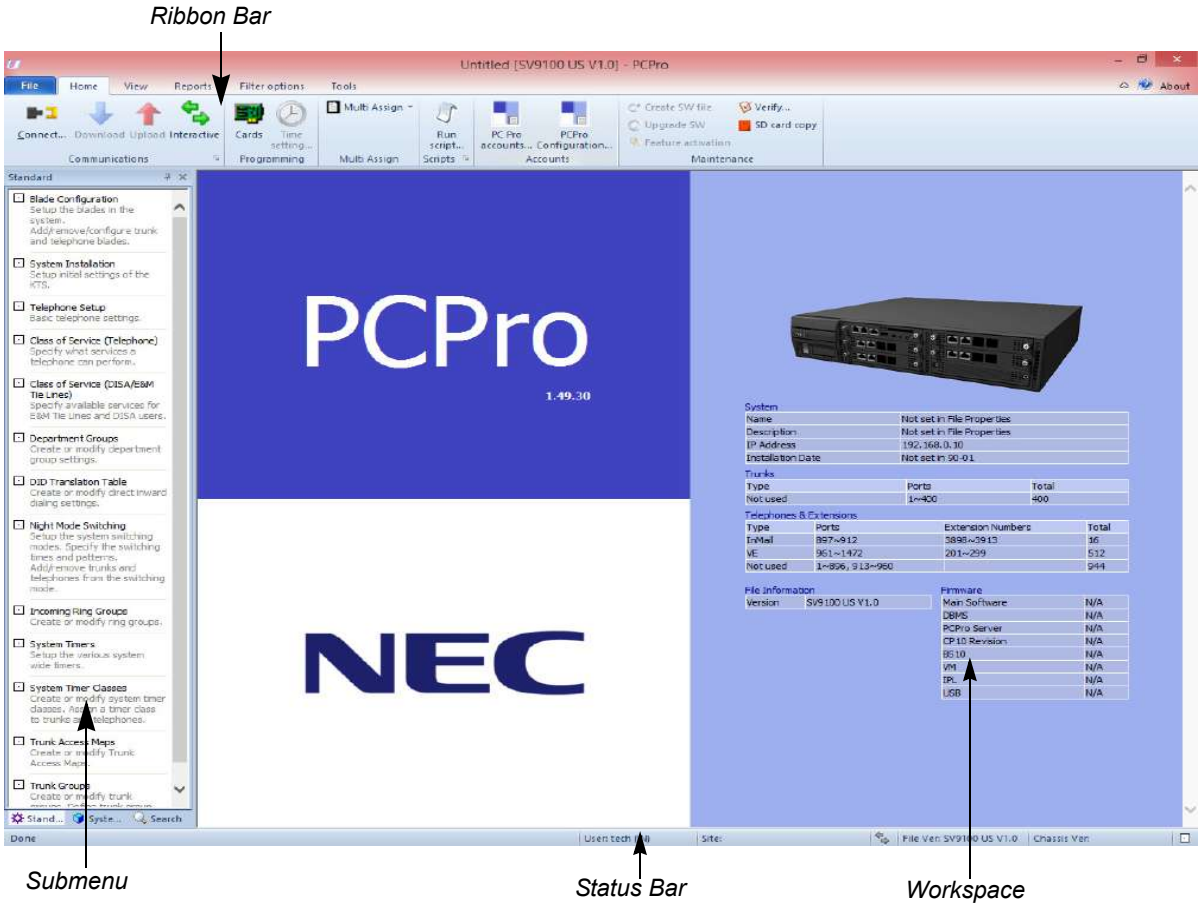
Chapter 3

SECTION 1 INTRODUCTION

The programming section of PCPro provides methods to view and edit values associated with a chassis configuration. Most programming is done using two different views: Standard and System Data. These methods can be accessed through the menu item **Programming**. Accessing these items updates the applications Sub-menu and Workspace areas. The Status bar gives a status indication of various functions related to PCPro (e.g., connection status, version information).

The general PCPro application layout is shown in Figure 3-1 PCPro Application Layout.

Figure 3-1 PCPro Application Layout



SECTION 2 MENU

The menu displays the list of functions available in PCPro. Some of these commands have images next to them so you can quickly associate the command with the image. The full list of the PCPro menu hierarchy is found in - Menu and Toolbar Reference.

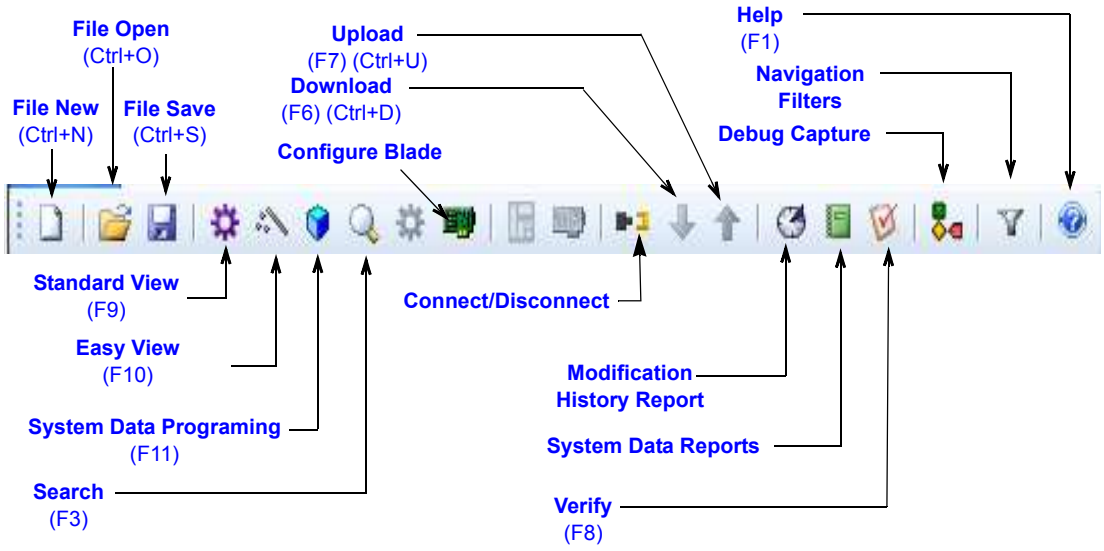
SECTION 3 TOOLBAR

The Toolbar is not opened by default. It is opened by going to **View**. The Toolbar is a group of buttons that map to items in the application menu. The toolbar allows for quick and convenient access to the most common PCPro commands. The items on the toolbar are shown in Figure 3-2 PCPro Toolbar.

NOTE

*The keyboard shortcuts (where applicable) are listed below the toolbar identification in **Figure 3-2 PCPro Toolbar**.*

Figure 3-2 PCPro Toolbar



The full list of the PCPro menu and toolbar hierarchy is found in - Menu and Toolbar Reference.

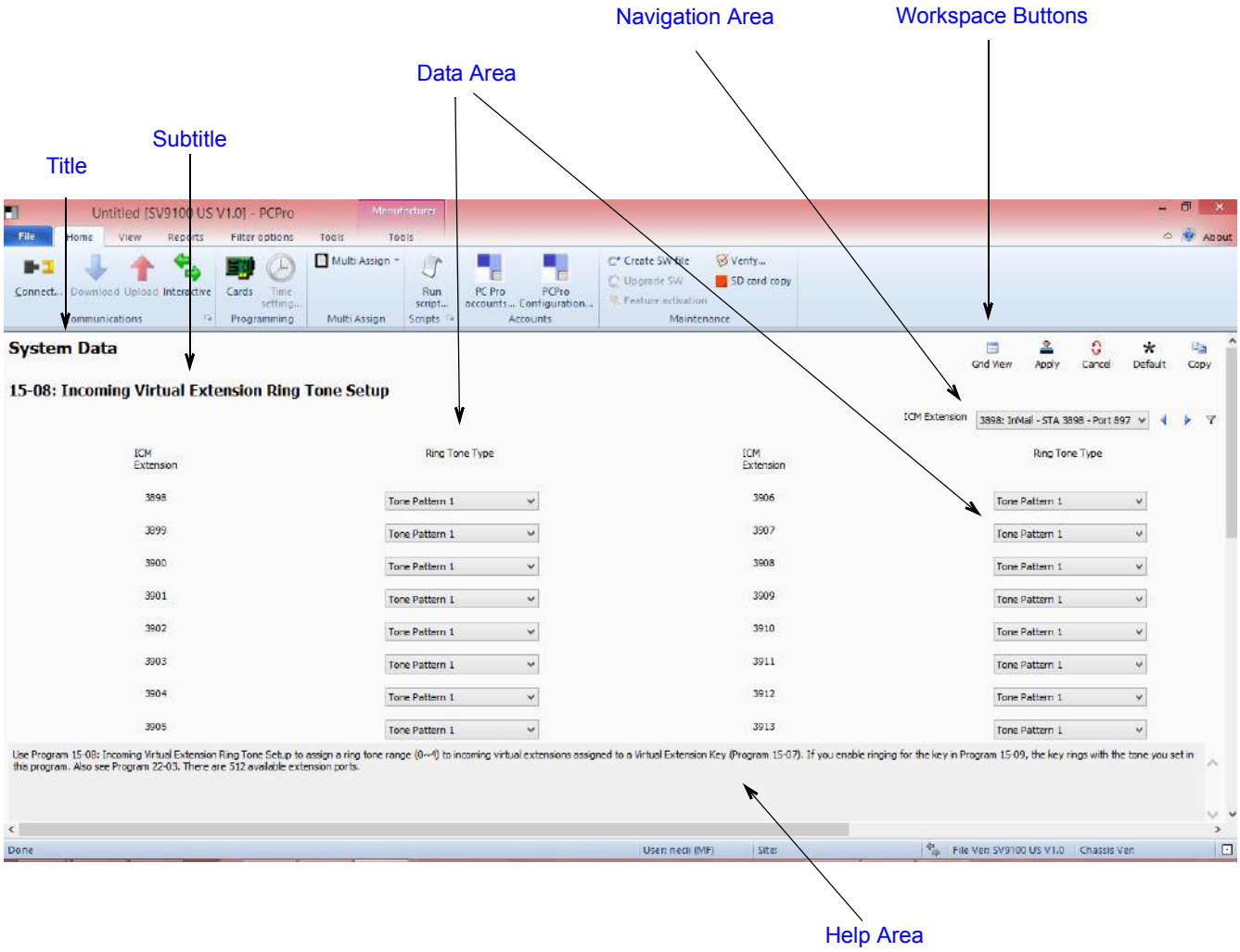
SECTION 4 SUB-MENU AREA

The Sub-menu area is used to navigate through Standard View (refer to - Standard View) and System Data (refer to - System Data View). Selections made from the sub-menu area updates the workspace with the related settings.

SECTION 5 WORKSPACE

The Workspace is where all programming occurs. The Workspace consists of various selections made from the Sub-menu Area and the Workspace itself. Common Workspace components are further explained.

Figure 3-3 PCPro Workspace



5.1 Title

Title describes what the current settings in the Workspace are related to. This is associated with the selection made in the Submenu Area. The title is situated at the top left corner of the Workspace.

5.2 Subtitle

Subtitle shows further information about what the you are programming.

5.3 Workspace Buttons

The Workspace buttons area displays different buttons relevant to current programming. These buttons include:

Table 3-1 Workspace Buttons

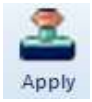
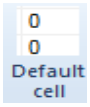
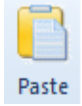
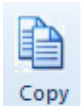
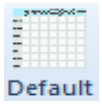
Button	Description
	**Apply** sets changes recently made on the active screen. Attempting to apply an invalid value prompts a validation message detailing the error. In this case, changes are not applied until the value is made valid.
	**Default Cell** sets all highlighted cells back to the default program setting.
	**Paste** applies copied contents into the selected location.
	**Copy** shows the Copy dialog. Refer to - Copy for more information.
	**Default** resets the active screen to the system default values.
	**Form View** is the default view, which displays the values with pull down boxes. Note that this option is not available on all screens.

Table 3-1 Workspace Buttons (Continued)

Button	Description
	**Grid View** is available on screens that have a large number of values that must be entered (e.g., screens with telephone extensions). When Grid View is selected, the screen switches to a table format, allowing you to easily enter a large number of values for a specified extension. For example, if assigning your incoming virtual ring tones for internal extensions, you can switch from Form View to Grid View to list all of the extensions in table format. Note that this option is not available on all screens.

When you do not click the **Apply** button, but do one of the following, the system applies the changes as if you had clicked the **Apply** button.

- Attempt to leave the current screen.
- Attempt to navigate a different item within the system data.
- Use the Previous button.
- Use the Next button.
- Save the active configuration.
- Exit the application. (Note that on some screens, the system prompts you to save the changes or to exit without saving them.)
- Generate a report.

5.4 Navigation Area

To navigate to different items within a program, use the various navigation buttons.

Figure 3-4 PCPro Navigation Buttons

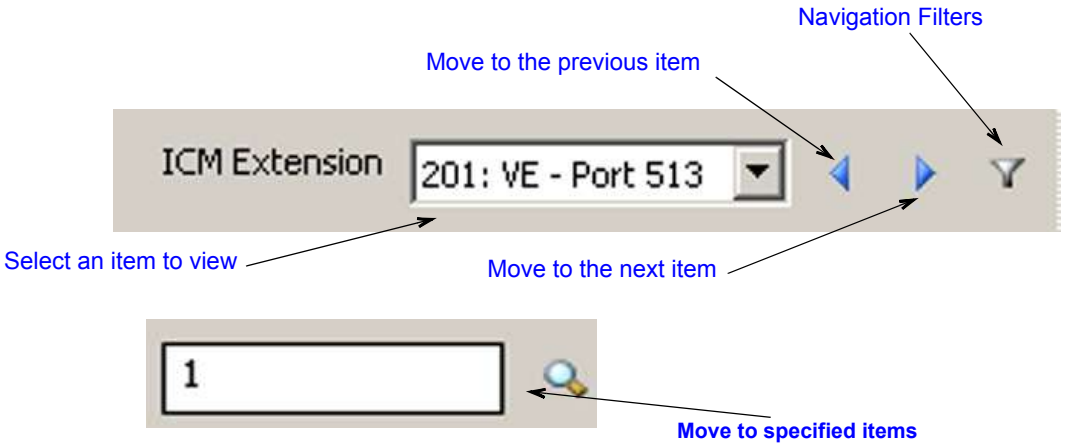


Table 3-2 Navigational Buttons and Drop Down List

Button/Menu	Description
Selections 	Select the item from the drop down list. PCPro automatically moves to the selected item.
Ranges 	Use this button to select a range of values. Type in the value and press the 'Go' button (magnifying glass icon) or press **Enter**. PCPro displays a range of available items, beginning with the value you typed. For example, if you typed Station Port 300, PCPro displays a range of ports beginning with port 300.
Previous/Next 	Use Previous to show settings of the preceding item. Use Next to show settings of the next item.

5.5 Data Area

The Data Area is where actual system data appears. The contents of this area are specific to what the you are programming. For example, if programming PRG 10-02, this area shows all the data items within 10-02.

The contents of the Data Area are linked to the various system data *views* available. These are:

- Standard
- Easy Edit
- System Data

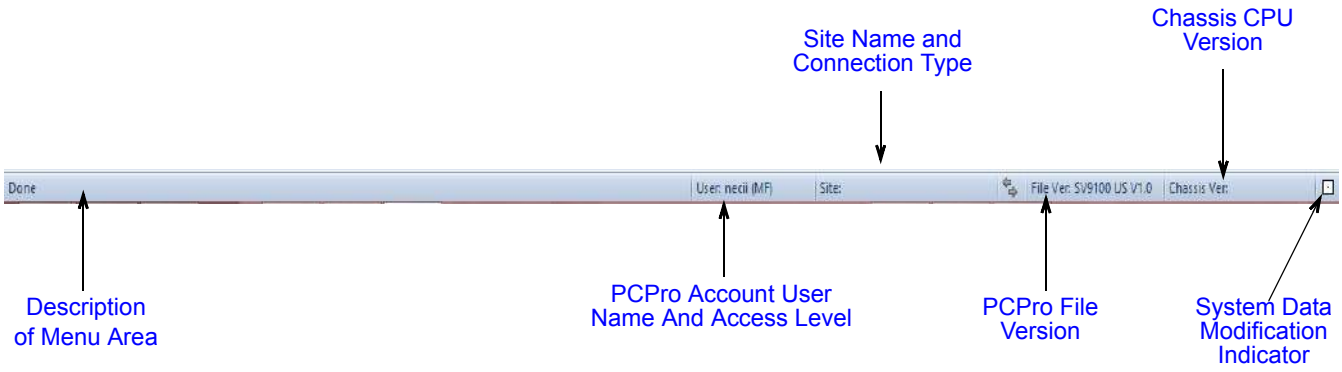
5.6 Help Area

The Help Area shows help text relevant for the data in the Data Area. More extensive help can usually be found in the application online help (F1 key).

5.7 Status Bar

The status bar, which is a horizontal area at the bottom of the Workspace, provides information about the current state of what you are viewing in the Workspace and any other contextual information.

Figure 3-5 PCPro Status Bar



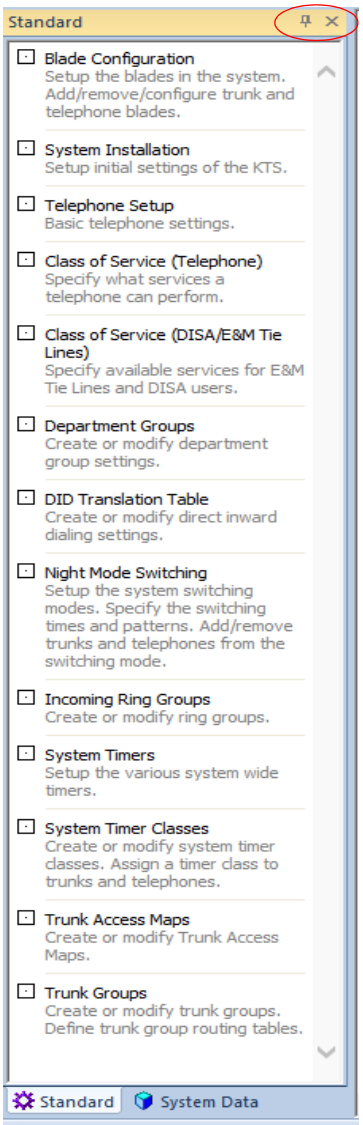
Standard View

Chapter 4

SECTION 1 OVERVIEW

Standard View combines related settings into one screen, allowing a quick setup of a high level task. Settings on these screens work together, allowing you to understand how settings relate to each other. Standard screens are identified by their name. This name indicates the tasks with which the screen is related.

Figure 4-1 Standard View Submenu



This menu displays by right clicking on the Standard View window.
Window View: Right click to display the flyout, which allows you to select how you want the Standard submenu displayed.

Auto Hide: Clicking this icon hides the Standard submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the Standard submenu list and tabs.

SECTION 2 STANDARD VIEW SUBMENU

2.1 Accessing Standard View

You can access Standard View submenu area using any of the following methods:

- From the Standard View submenu, select the menu item **View > Standard**.

  -- or --

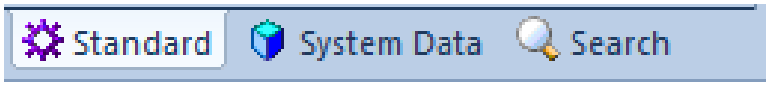
- Select the toolbar icon (by clicking **View**) depicting the purple cog  .

  -- or --

- Press **F9**.

  -- or --

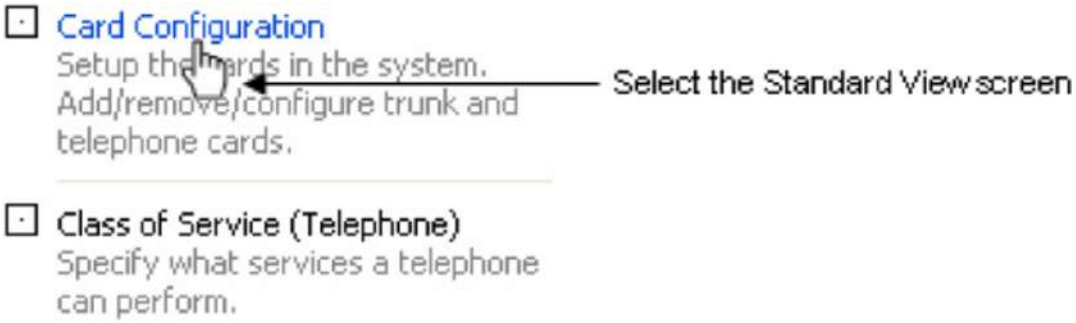
- If the submenu area is currently open, select the **Standard** tab depicting the purple cog icon.



Once selected, the Standard View menu appears in the Programming submenu area. Standard screens are listed alphabetically.

To view a particular Standard View screen, click on the screen name.

Figure 4-2 Selecting a Standard View Screen



2.2 Using a Standard View Screen

Each Standard View screen works differently. However the following common methods apply:

1. Select the **Standard View** screen from the Standard View menu relevant to the desired task.
2. Modify settings on the screen.
3. Press the **Apply** button to save the changes.

The method in modifying settings for each screen is explained in the help menu.

The remainder of this chapter discusses the individual options available from the Standard View submenu.

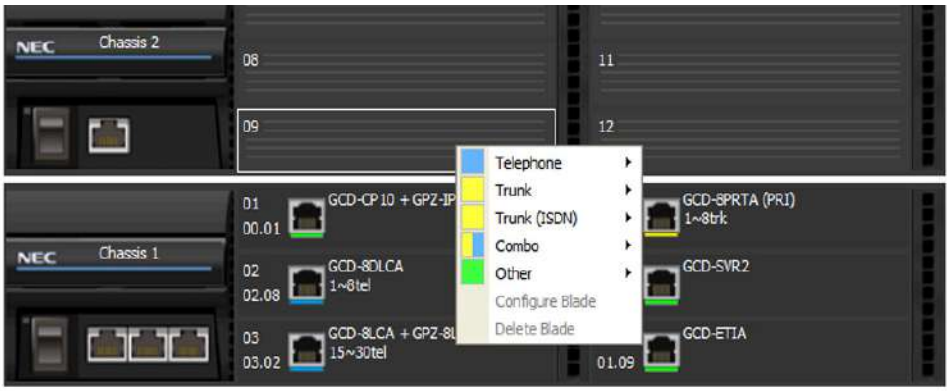
SECTION 3 CARD CONFIGURATION

The screen represents a conceptual model of the chassis and the blade packages within it. To obtain blade details download the configuration from the chassis. The blade slots display the blade types (these are the blades that can be inserted in the selected slot), the telephone/trunk port range (these are the ports used by the blade) and firmware version (firmware being used by the blade). By default, all blade slots displayed as white indicating no blade has been installed in that slot.

On this screen, you can right mouse click on the desired slot. A popup menu is displayed indicating the configurable options for that slot. Once you have selected the blade that is installed in that slot, the blade name is displayed on the front of the slot location.

Refer to Figure 4-3 Standard View Card (Blade) Configuration Screen on page 4-4 for the layout of the Card Configuration screen.

Figure 4-3 Standard View Card (Blade) Configuration Screen



CPU MAC: N/A

Version Information

Type	Version
File Ver	SV9100 EMEA V3.0
Main Software	2.99.12
DBMS	V5.0H
PCPro Server	1.03.0o.pipk
CP10 Revision	4
BS10	Not Installed
VM	Advanced VM
IPL	VOIPDB(E1)
USB	Not Installed

Power Factor

Chassis	Board	Terminal
1	7	21.6
2	0	0.0
3	0	0.0
4	0	0.0

Only IP terminals that are connected to ETIA blades are included in the power factor calculation.

Click IP to ETIA to connect IP terminals to ETIA blades

Max board power factor = 7
Max terminal power factor = 80

Trunks

Type	Ports	Total
CO		0
BRI		0
PRI	1~8	8
T1		0
CCH		0
TLI		0
DID		0
IP		0
SIP		0
H.323		0
T-Point Loopback		0
E1		0
Trk*		0
Not used	9~400	392

8 ports of 400 are used

Telephones

Type	Ports	Extension Numbers	Total
MLT	1~7	101~107	7
SLT	15~30	115~116, 216~229	16
IP	9~14, 31~32, 55	109~114, 155, 230~231	9
IP*			0
VM			0
InMail	897~912	5596~5611	16
VE	961~1472	201~299	512
DSS	8	108	1
S-Point			0
S-Point Loopback			0
Mobile*			0
CNF			0
IVR			0
RGA			0
Tel*			0
Not used	33~54, 56~896, 913~960		911

148 ports of 1472 are used

3.1 Blade Types

In PCPro, blade types are categorized under the following four groups. When you right click on the chassis model on the screen, the popup menu is displayed. The menu lists the blades and each blade type is designated with a distinctive color.

Blade Type and Color	
Telephone	Combo
Trunk	Other

Telephone
Represented on the Blade Configuration screen as 'blue' blades. Telephone blades provide interfaces to telephones being used in the chassis. Telephone blades use telephone ports (e.g., a GCD-8DLCA makes use of eight telephone ports).

Trunk
Represented on the Blade Configuration screen as 'yellow' blades. Trunk blades provide interfaces to lines such as COI, DID, OPX, BRI, PRI, T1, CCIS, etc., which are being used in the chassis. Trunk blades, use trunk ports (e.g., a GCD-4COTB blade makes use of four trunk ports).

Combo
Represented on the Blade Configuration screen as 'yellow/blue' blades. Trunk blades provide interfaces to lines such as digital single line stations, which are being used in the chassis. Combo blades, use telephone ports (e.g., a GCD-LTA blade makes use of eight digital telephone ports and two analog ports).

Other
Represented on the Blade Configuration screen as 'green' blades. These miscellaneous blades do not have a direct relationship to a trunk or telephone. However, some blades under this category (e.g., GCD-VM00) use telephone ports as they are associated with extensions.

3.2 Adding a Blade

To add a blade, complete the following steps:

1. With the mouse, right click on the slot where you want the blade to reside.

2. A popup menu appears listing the blade types that can be installed.

NOTE — *There are two additional options on the popup menu. These are Configure Card and Delete Card. These two options are only available if a blade has previously been added.*

3. Select a blade type relevant to the blade to install.
4. Another popup menu appears listing blades associated with the selected blade type.
5. Select the desired blade package you want to add.

The slot changes appearances to indicate the blade that is installed, the firmware version, the port type and the port range that is used.

3.3 Removing a Blade

To remove a blade, complete the following steps:

1. With the mouse, right click on the blade you want to remove.
2. When the popup menu is displayed, select **Delete Card**.

The blade is removed and the slot and port type range it was utilizing is now available for use by another blade.

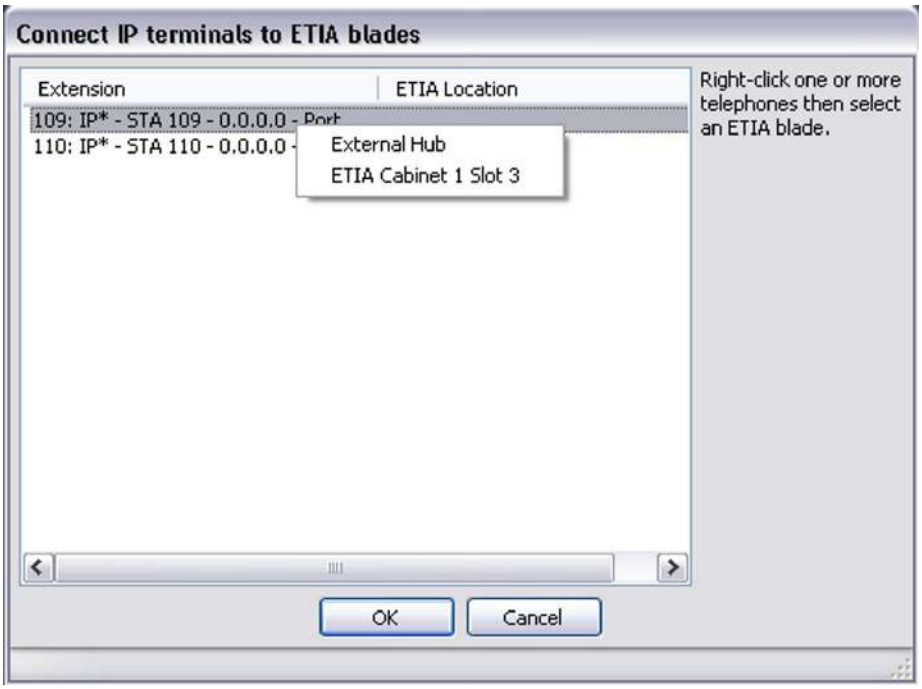
3.4 Assigning IP Phones to ETIA Blades

To assign an IP to an ETIA blade, complete the following steps:

1. Click on the IP to ETIA button.
2. Right click on the IP phone to assign it to the ETIA blade.
3. Select the ETIA blade to which the IP phone is connected.

- ***Selecting External Hub means the phone is not connected to an ETIA blade.***
- ***Set the phone type using PRG 15-05-26 to ensure the correct power factor is assigned by the system.***

Figure 4-4 Connect IP Terminals to ETIA Blades

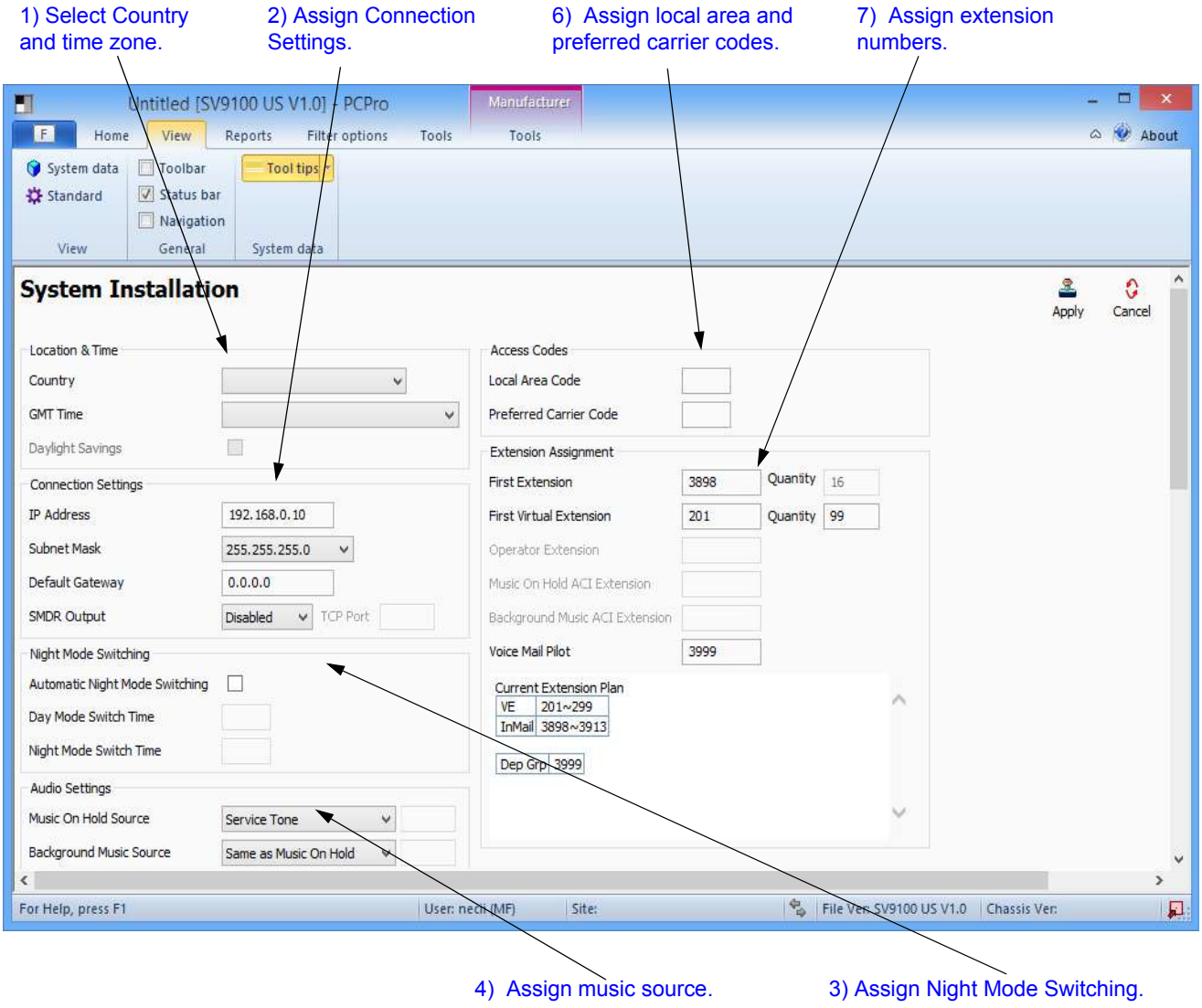


4. Click **OK** to save your selection.

SECTION 4 SYSTEM INSTALLATION

The System Installation screen allows you to assign initial settings for the SV9100 system.

Figure 4-5 Standard View System Installation



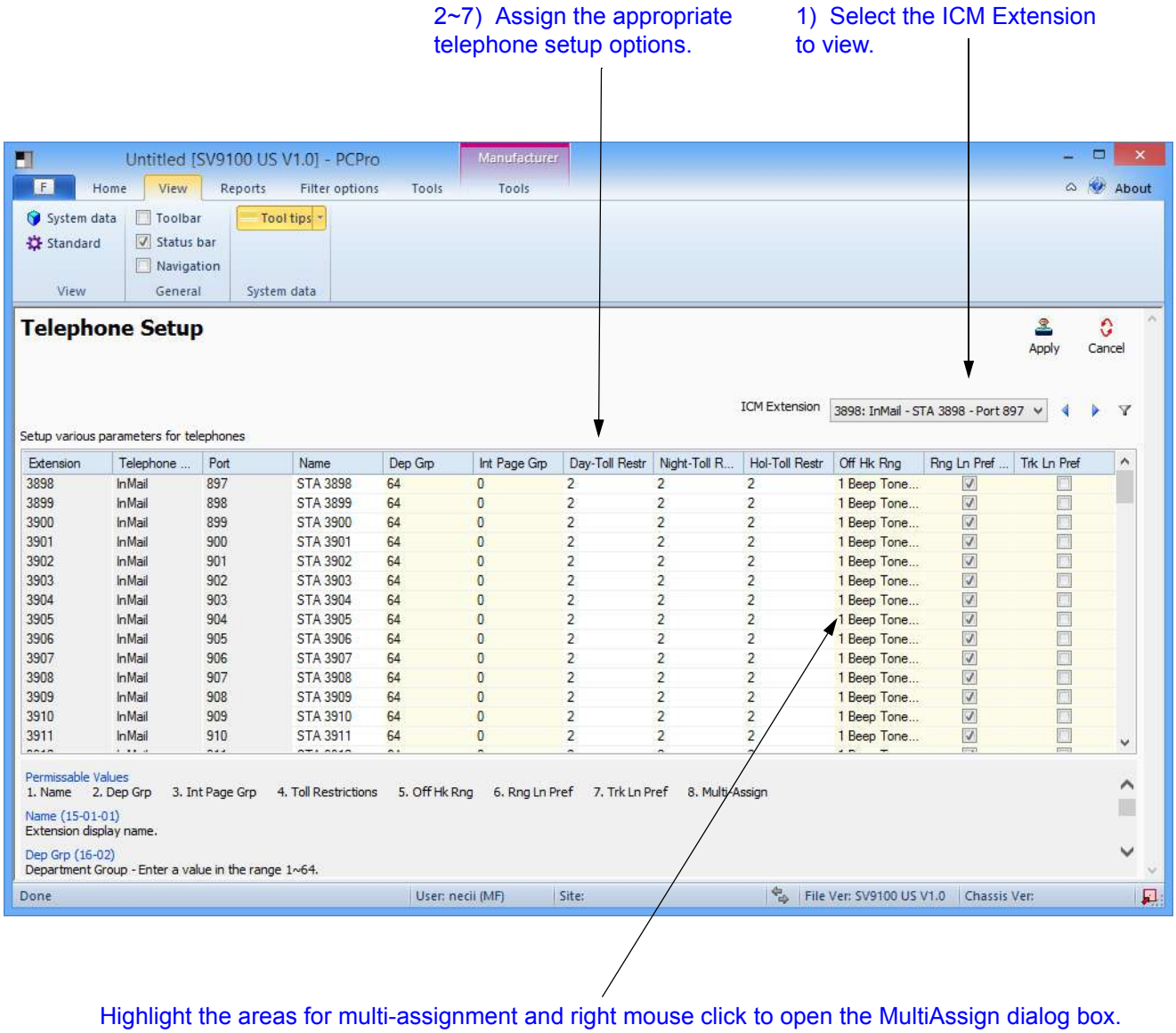
To assign the initial system settings:

1. Select the **Country** (United States or Canada) and **GMT Time** (appropriate time zone) where the system installed.
2. Assign the **IP Address**, **Subnet Mask**, **Default Gateway**, **Optimum Baudrate** and **SMDR Output** as required for the installation site.
3. Assign whether the system automatically switches to Night Mode. If you select **Automatic Night Mode Switching**, you also need assign the time the system switches to day mode (**Day Mode Switch Time**) and to night mode (**Night Mode Switch Time**).
4. Use the pulldown menus to disable Music on Hold or Background Music, or assign the music source.
5. Select **InMail** if this is the voice mail that the system uses.
6. Assign the **Local Area Code** and **Preferred Carrier Code**.
7. Assign extension numbers for virtual, operator, Music on Hold ACI extension and Background Music ACI extensions. Also assign the Voice Mail Pilot extension. The Current Extension Plan for the assigned extensions is displayed (this field is view only).

SECTION 5 TELEPHONE SETUP

This screen combines system data, which is relevant for telephone settings. It allows you to assign basic telephone settings.

Figure 4-6 Standard View Telephone Setup



To assign the basic telephone settings.

1. Use the **ICM Extension** pulldown menu to select a specific extension you want to view. The selected extension is highlighted.
2. Assign the **Name (**Extension Name) that is displayed.
3. Assign a **Dep Grp** (Department Group) to the selected telephone for incoming ringing priority.
4. Assign the **Int Page Grp** (Internal Paging Group) selected telephone to an internal paging group (e.g., to assign the telephone paging zones and to specify whether the telephone can receive internal all call paging).
5. Assign **Day-Toll Restr** (Day Mode Toll Restriction) class for Day Mode.
6. Assign **Night-Toll Restr** (Night Mode Toll Restriction) for Night Mode.
7. Assign **Hol-Toll Restr** (Holiday Mode Toll Restriction) for Holiday Mode.
8. Use the pulldown menu to assign **Off Hk Rng** (Off-Hook Ringing) to the extension.
9. Enable/Disable **Rng Ln Pref** (Ringing Line Preference) for the extension.
10. Enable/Disable **Trk Ln Pref** (Trunk Line Preference) for the extension.
11. Click **Apply** to save the settings.

MultiAssignment

Telephones the have the same properties can be assigned in a block by using the MultiAssign feature**.**

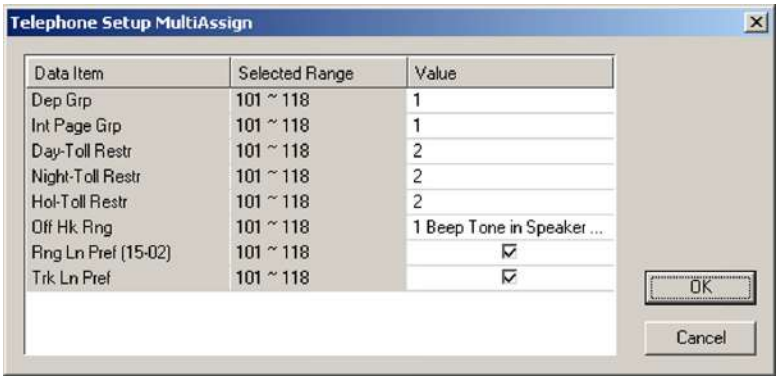
The extension name cannot be multi-assigned.

To assign properties to a block of telephones:

1. Select the area of cells to be assigned in a block.
2. Right click the mouse within the selected area. The MultiAssign dialog box is displayed. (Refer to Figure 4-6 Standard View Telephone Setup on page 4-10.)

   The MultiAssign dialog is filled with the values from the top most selected lines. If any cells on that line are disabled, the default value for that item is used. Columns that are not selected are disabled.

Figure 4-7 Standard View Telephone Setup MultiAssign Dialog

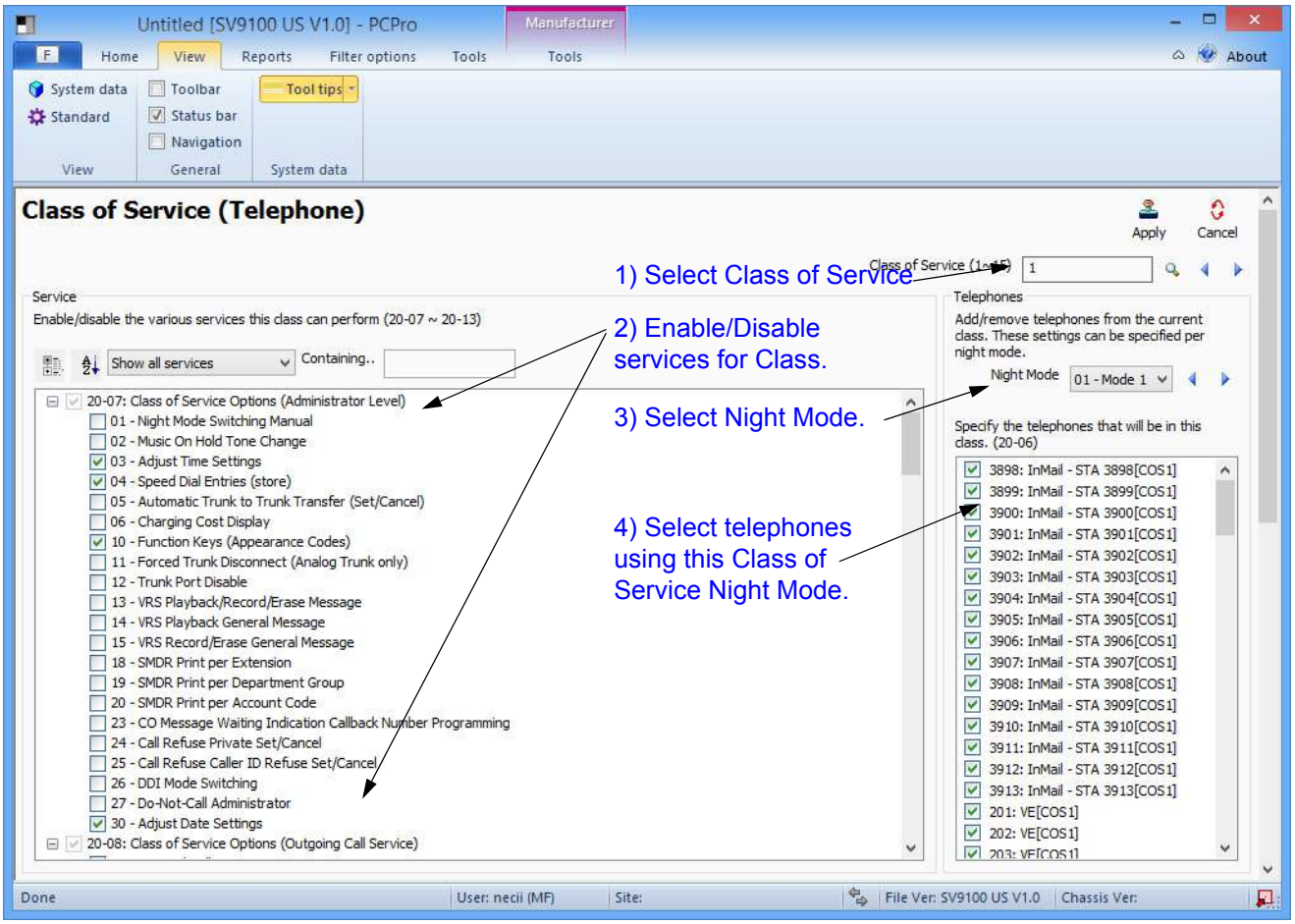


3. Make your selections and click **OK**. All selected telephones are assigned the values in the MultiAssign dialog box.

SECTION 6 CLASS OF SERVICE FOR TELEPHONES

This screen combines system data relevant to Class of Service Options for telephones.

Figure 4-8 Standard View Class of Service for Telephones



The assign Class of Service settings for telephones:

1. Select the **Class of Service (1~15)** you want to assign to the telephones.
2. Enable/Disable telephone-specific service options for the selected Class of Service. These settings are linked with programs 20-07, 20-08, 20-09, 20-10, 20-11, 20-12 and 20-13.

NOTE

You can select one of three options for viewing the services:

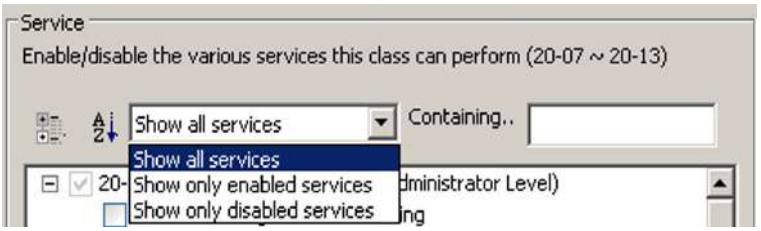
Show all services.

-- or --

Show only enabled services.

-- or --

Show only disabled services.



You can also choose how you want to view the options:

Categorized (by program)

-- or --

Alphabetic (by feature name)

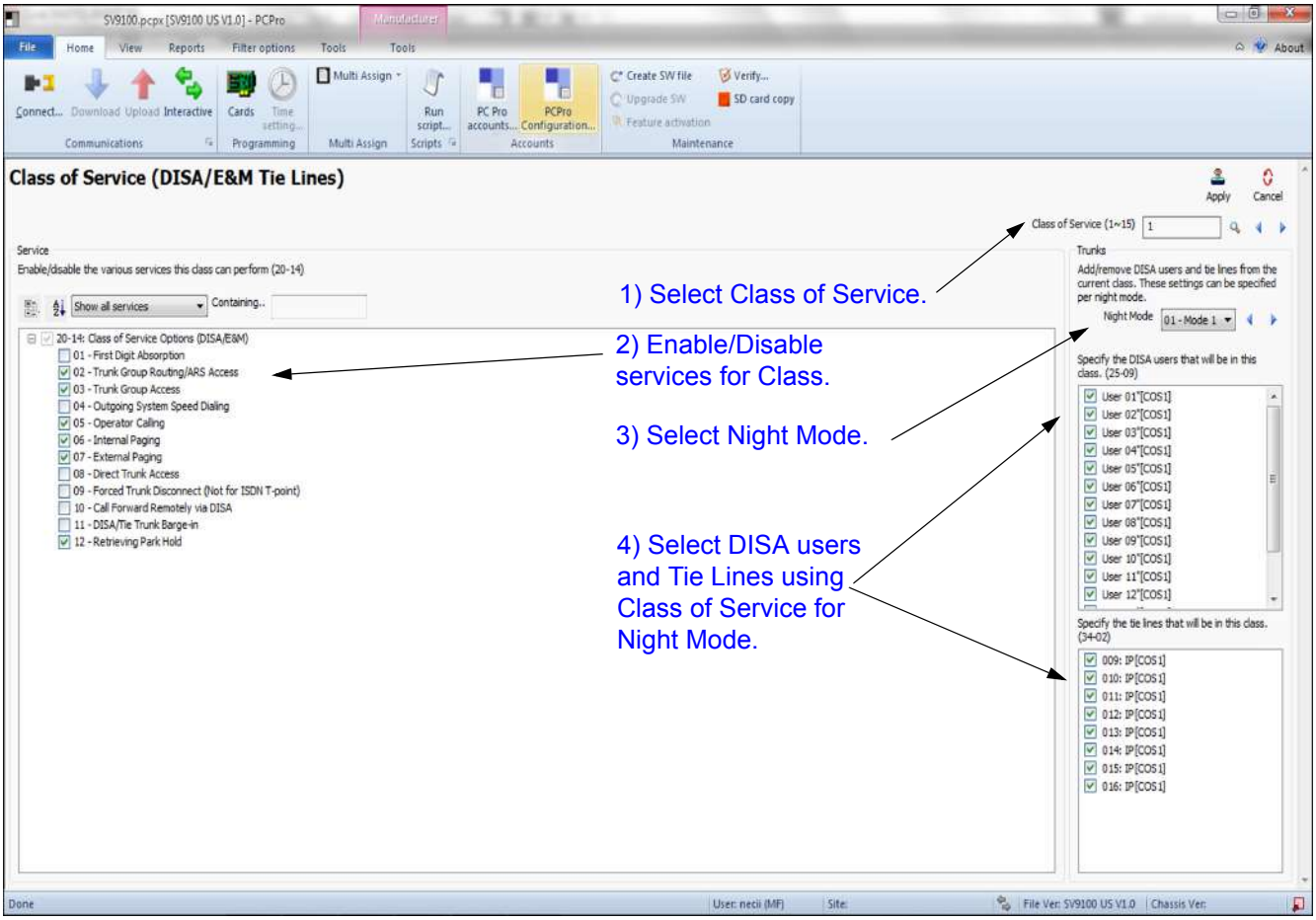
3. Select the **Night Mode** from the pulldown menu.
4. Click the telephones that you want to assign to the specified Night Mode.

   The selected telephones will be members of the class during the selected Night Mode. These settings are linked with 20-06.
5. Click **Apply** to save the settings.

SECTION 7 CLASS OF SERVICE FOR DISA/E&M TIE LINES

This screen combines system data relevant to Class of Service options for DISA users and E&M Tie Lines.

Figure 4-9 Standard View Class of Service for DISA/E&M Tie Lines



To assign Class of Service options for DISA and E&M Tie Lines.

1. Select the **Class of Service (1~15)** you want to assign to the telephones.
2. Enable/Disable telephone-specific service options for the selected Class of Service. These settings are linked with programs 20-14.

NOTE

You can select one of three options for viewing the services:

Show all services.

-- or --

Show only enabled services.

-- or --

Show only disabled services.

You can also choose how you want to view the options:

Categorized (by program)

-- or --

Alphabetic (by feature name)

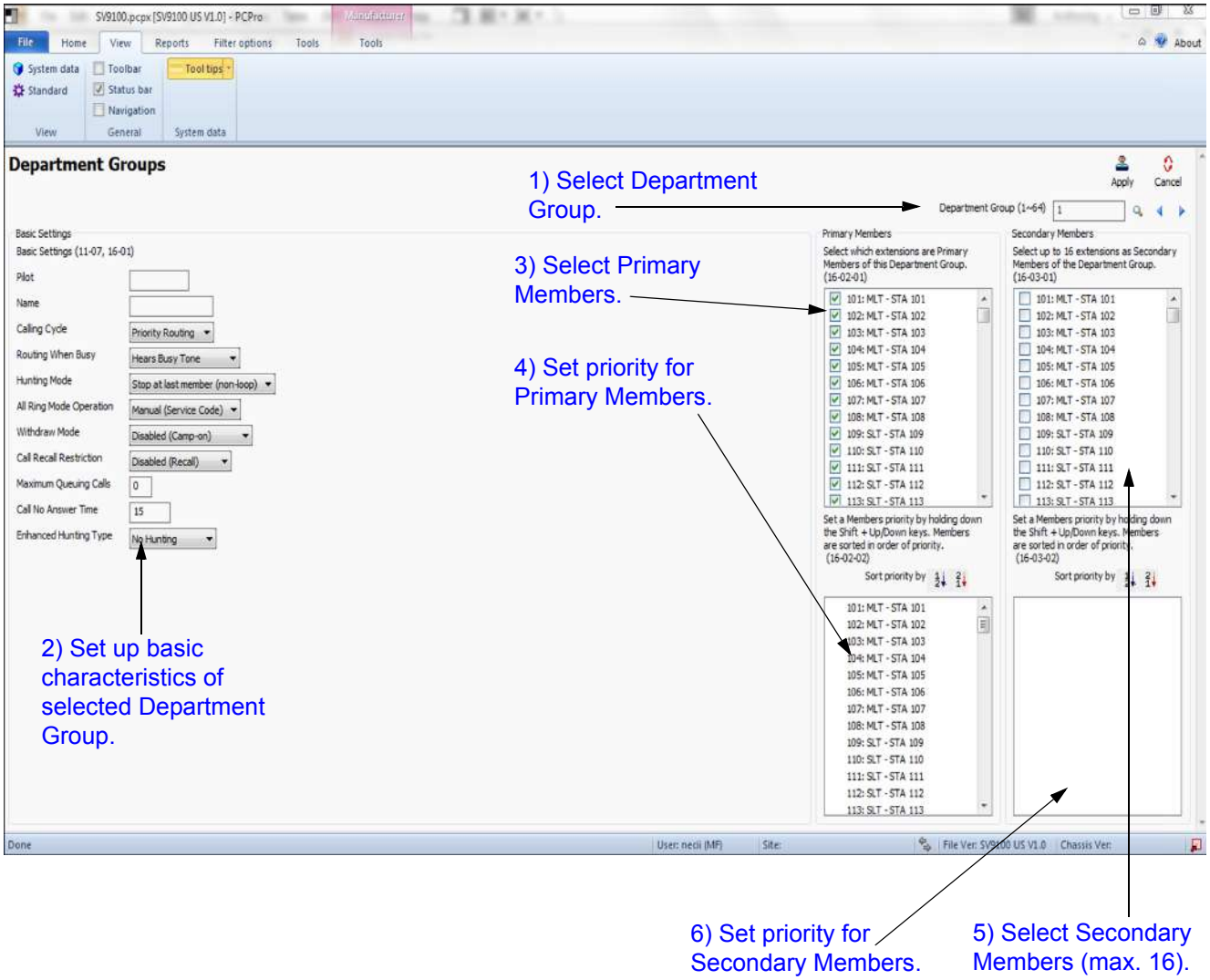
3. Select the **Night Mode** from the pulldown menu.
4. Click the DISA users and E&M Tie Lines that you want to assign to the specified Night Mode.

   The selected DISA users and E&M Tie Lines will be members of the class during the selected Night Mode. DISA settings are linked with program 25-09 and E&M Tie Line settings are linked with program 34-02.
5. Click **Apply** to save the settings.

SECTION 8 DEPARTMENT GROUPS

This screen combines system data relevant to the feature **Department Groups**.

Figure 4-10 Standard View Department Groups



To setup up a Department Group:

1. Specify a **Department Group** to modify.
2. Specify basic characteristics (**Basic Settings**) of the Department Group.

   The **Basic Settings** section basic characteristics of the selected Department Group. These settings are linked with 16-01.
3. Select the extensions that are **Primary Members** of the Department Group.

   All extensions that are Primary Members of the selected Department Group are listed. Every extension must belong to one of the 64 available Department Groups. By default, all extensions are Primary Members of Department Group 1. By removing an extension from Department Group 1 it is automatically assigned to Department Group 64. These settings are linked with 16-02.
4. Specify the priority for the selected **Primary Members**.

   When an extension is selected as a Primary Member it automatically appears in the priority list (the list to the bottom of the Primary Member list). The priority of the selected extension can be modified by the following key combinations:

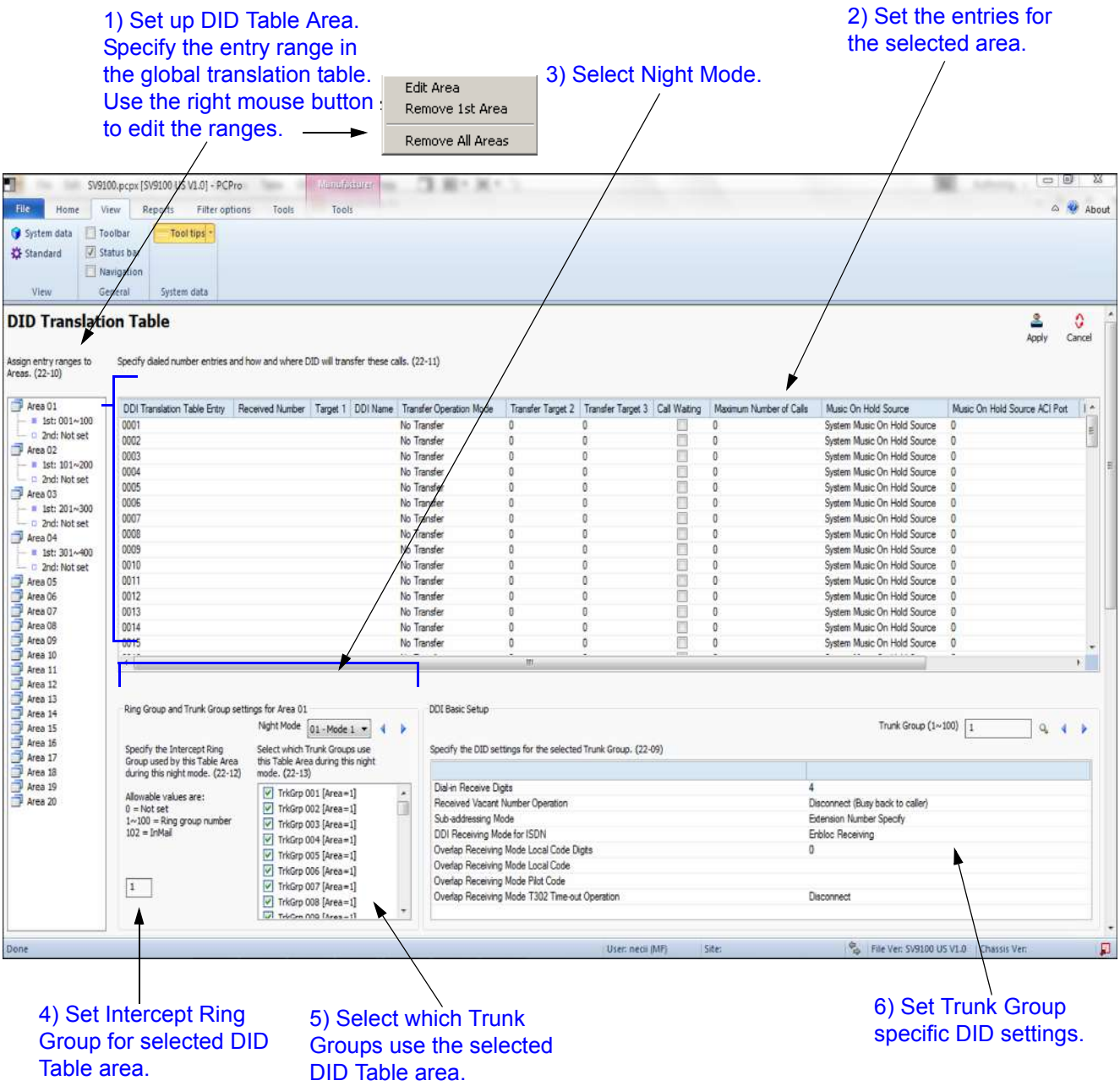
   - Shift + Up Arrow — Increase priority by 1
   - Shift + Down Arrow — Decrease priority by 1
   - Shift + Page Up — Increase priority by one page
   - Shift + Page Down — Decrease priority by one page
   - Shift + Home — Make highest priority
   - Shift + End — Make lowest priority
5. Select the extensions (maximum of 16) that are **Secondary Members** of the Department Group.

   All extensions that are Secondary Members of the selected Department Group are listed. A maximum of 16 extensions can be assigned as Secondary Members. These settings are linked with 16-03.
6. Specify the priority for the selected **Secondary Members**.
7. When an extension is selected as a Secondary Member it automatically appears in the priority list (the list to the bottom of the Secondary Member list). The priority of the selected extension can be modified by using the same key combinations as in the case of setting the priority for Primary Members.

SECTION 9 DID TRANSLATION TABLE

This screen combines system data relevant to the DID Translation Table and Trunk Groups using DID. These settings are used with the feature “Direct Inward Dialing”.

Figure 4-11 Standard View DID Translation Table

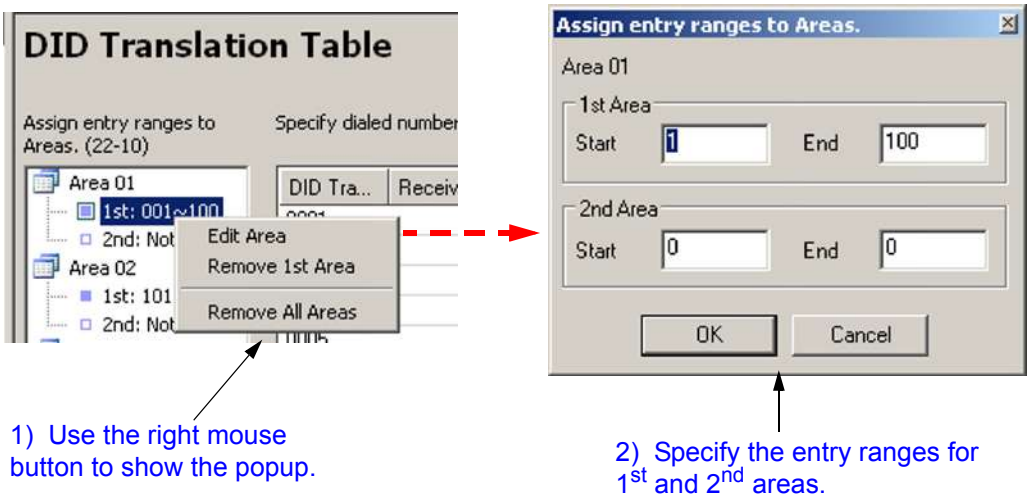


To setup the DID Translation Table and associate it with Trunk Groups:

1. Select and define a Table Area within the **DID Translation Table**.

   The DID Translation Table consists of 4000 entries that can be divided among 20 Table Areas, each being made up of a 1st and 2nd Area. Using the mouse, right click a Table Area to define its 1st and 2nd entry ranges it uses. These settings are linked with 22-10.

Figure 4-12 Standard View DID Table Area Edit Popups



   When a Table Area is selected, the grid to the right is updated with the new entry range. For example, selecting Area 01, 1st Area (entry ranges 001~100) will result in the grid showing the DID Table entries 001 to 100.

2. Specify the selected Table Area entries and how they are treated with DID.

   Table Area entries are located in the grid to the right of the Table Area list. It defines DID Table Area entries and how they are directed within the system. These settings are linked with 22-11.

3. Select the **Night Mode** to modify for DID.

   Assign the Trunk Groups that use the Table Area via this Night Mode selection. In addition, use this to help define the Intercept Ring Group calls get forward to during Night Modes. Do this by completing the following:

   - ❑ Select a Night Mode.
   - ❑ Select the Trunk Groups during this Night Mode that will use the selected Table Area.

- ❑ Define the **Intercept Ring Group** calls that are forwarded during this Night Mode.

4. Specify the **Intercept Ring Group** to use by the Table Area during the selected Night Mode.

   Specifies if the call, during the selected Night Mode, is directed toward an Incoming Ring Group or voice mail. This setting only applies when the option is enabled in the associated DID Translation Table entry. This setting is linked with 22-12.

5. Select the **Trunk Groups** that use the Table Area during the selected Night Mode.

   This section lists the Trunk Groups that use the Table Area for DID during the selected Night Mode. These settings are linked with 22-13.

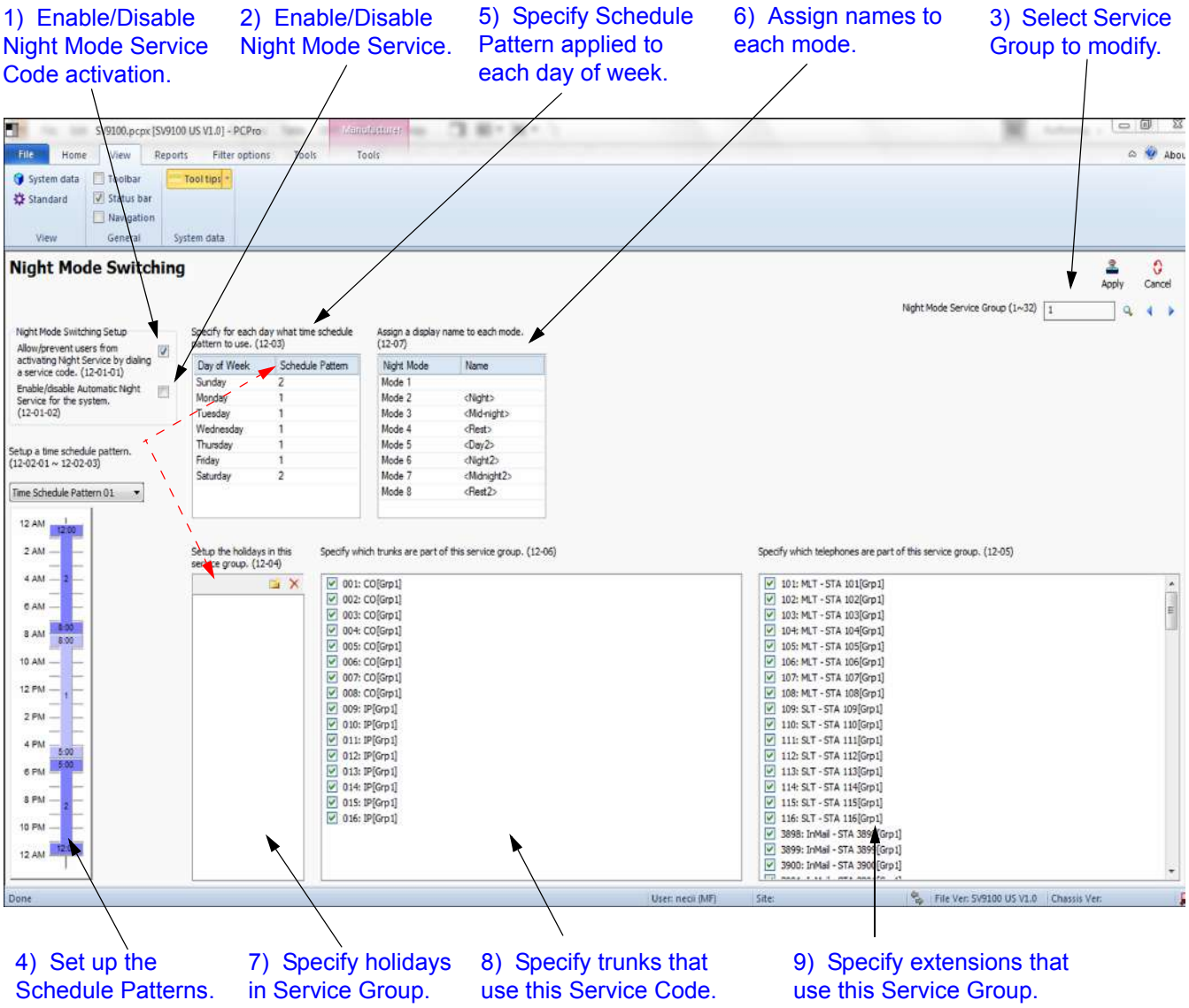
6. Specify the DID settings for the selected Trunk Group.

   The basic setup details for the Trunk Group DID settings are selected in this section. These settings are linked with 22-09.

SECTION 10 NIGHT MODE SWITCHING

This screen combines system data relevant to the Chassis feature “Night Service”.

Figure 4-13 Standard View Night Mode Switching



To setup the Night Mode Switching options:

1. Enable/disable users from activating Night Mode Service via a service code.

   This selection enables/disables users from activating Night Mode Service via a service code. This setting is linked with 12-01-01.

This is a system-wide setting and is applied across **ALL** Service Groups.

2. Enable/disable Automatic Night Mode Service.

   This selection enables/disables Night Mode Service for the system. This setting is linked with 12-01-01.

   This is a system-wide setting and is applied across **ALL** Service Groups.

3. Specify a **Night Mode Service Group (1~32)** to modify.

4. Define Schedule Patterns used by the selected Night Mode Service Group. Schedule Patterns are comprised of time frames that are associated to Night Modes.

   You can define up to 10 Schedule Patterns for the selected Night Mode Service Group. Schedule Patterns can be made up of 20 time frames. Each time frame is associated with a Night Mode. These settings are linked with 12-03.

   Refer to 10.1 Adding a Time Frame on page 4-24, 10.2 Removing a Time Frame on page 4-25, 10.3 Moving a Time Frame on page 4-25 and 10.4 Modifying a Time Frame on page 4-26.

5. Specify the Service Patterns applied to each day of the week.

   Define the Schedule Pattern used each day of the week by the selected Night Mode Service Group. These settings are linked with 12-03.

6. Assign a name to each Night Mode.

   This can be used to identify the time frame. Night Mode names defined here are referred to throughout the system. These settings are linked to 12-07.

7. Define public holidays and the Schedule Pattern used by the Night Mode Service Group on these days.

   These settings are linked with 12-04.

8. Select the trunks that are members of the Night Mode Service Group.

   These settings are linked with 12-06.

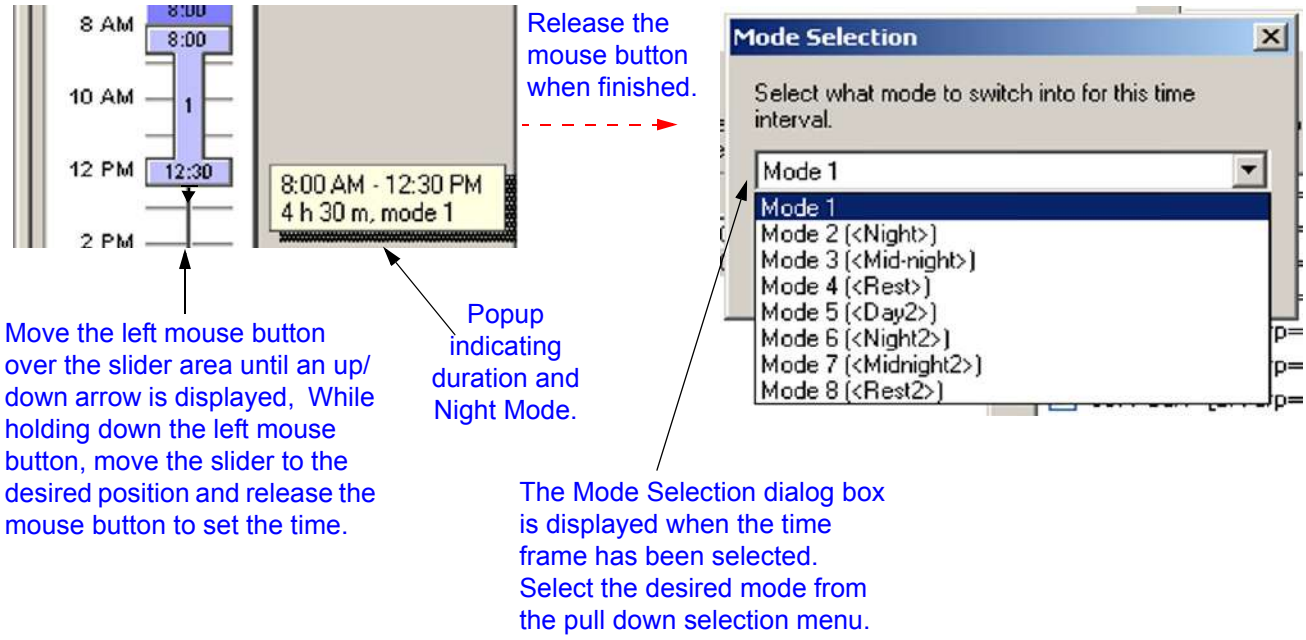
9. Select the extensions that are members of the Night Mode Service Group.

   These settings are linked with 12-05.

10.1 Adding a Time Frame

This section describes how to add a time frame to a schedule for night mode switching.

Figure 4-14 Standard View Night Mode Switching Adding Time Frame



To add a time frame in a Schedule:

1. Using the mouse on the Schedule Pattern bar, left click and drag from the starting time toward the end time. A colored bar appears defining this time frame. Keep the left mouse button pressed while dragging.

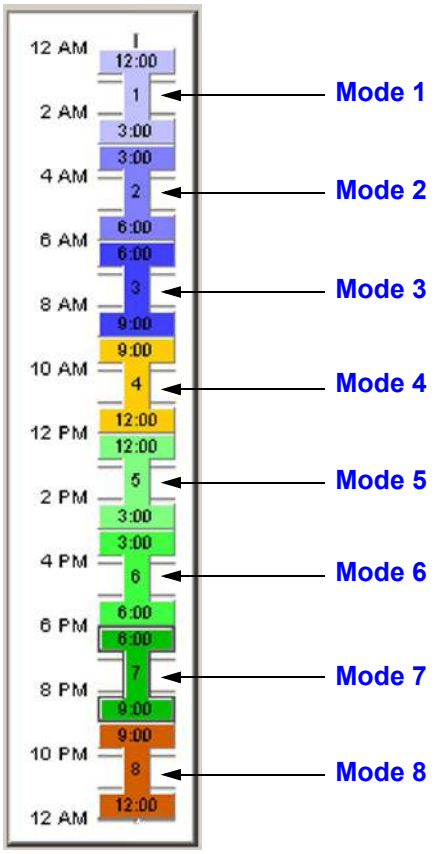
2. Release the left mouse button. A dialog then prompts for the Night Mode associated with this time frame.

3. Select a Night Mode associated with this time frame.

   The colored bar changes its color depending on the Night Mode defined.

   Each mode is assigned a different color. These colors are shown in Figure 4-15 Standard View Night Mode Switching Mode Colors on page 4-25.

Figure 4-15 Standard View Night Mode Switching Mode Colors



10.2 Removing a Time Frame

To remove a time frame, select it then drag it either left or right off the Schedule Pattern bar. Alternatively, select the time frame and press the **Delete** key.

10.3 Moving a Time Frame

To move a time frame select it with the mouse and drag it to the desired position. Surrounding time frames can limit changes because time frames cannot overlap. To solve this problem either remove time frames or modify them.

10.4 Modifying a Time Frame

To modify a time frame in a Schedule Pattern:

1. Select the time frame to modify.
2. Place the cursor at the top/bottom of the time frame until it changes appearance.
3. Left click then drag from the starting/ending time to the desired change.

Surrounding time frames can limit changes because time frames cannot overlap. To solve this problem either remove existing time frames or modify them.

10.5 Time Frame Duration

To find out the duration of a time frame select it and then hold down the left mouse button. A popup appears indicating the duration and Night Mode.

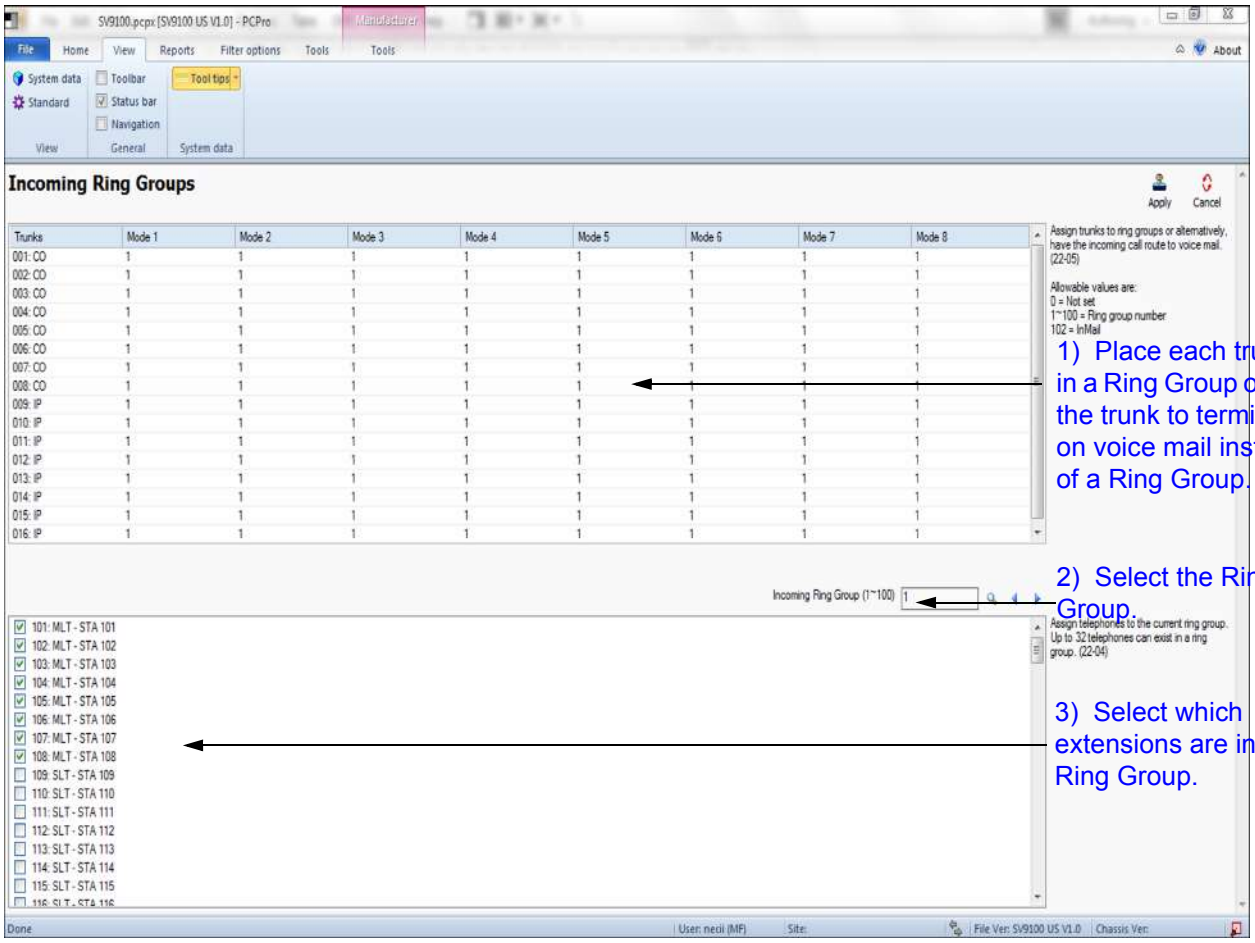
10.6 Time Frame Night Mode

To find out the Night Mode of a time frame select it and then hold down the left mouse button. A popup appears indicating the duration and Night Mode.

SECTION 11 INCOMING RING GROUPS

This screen combines system data relevant to the feature “Incoming Ring Groups”.

Figure 4-16 Standard View Incoming Ring Groups



To setup up an Incoming Ring Group:

1. For each trunk, specify the Incoming Ring Group of which it will be a member. Alternatively, route the call from the trunk to a voice mail type. Individual settings can be applied to each Night Mode.

   These settings are linked with 22-05.

2. Select the incoming Ring Group to which the trunks and extensions are assigned. You can use the right and left arrows to select the previous or next Ring Group (1~100).

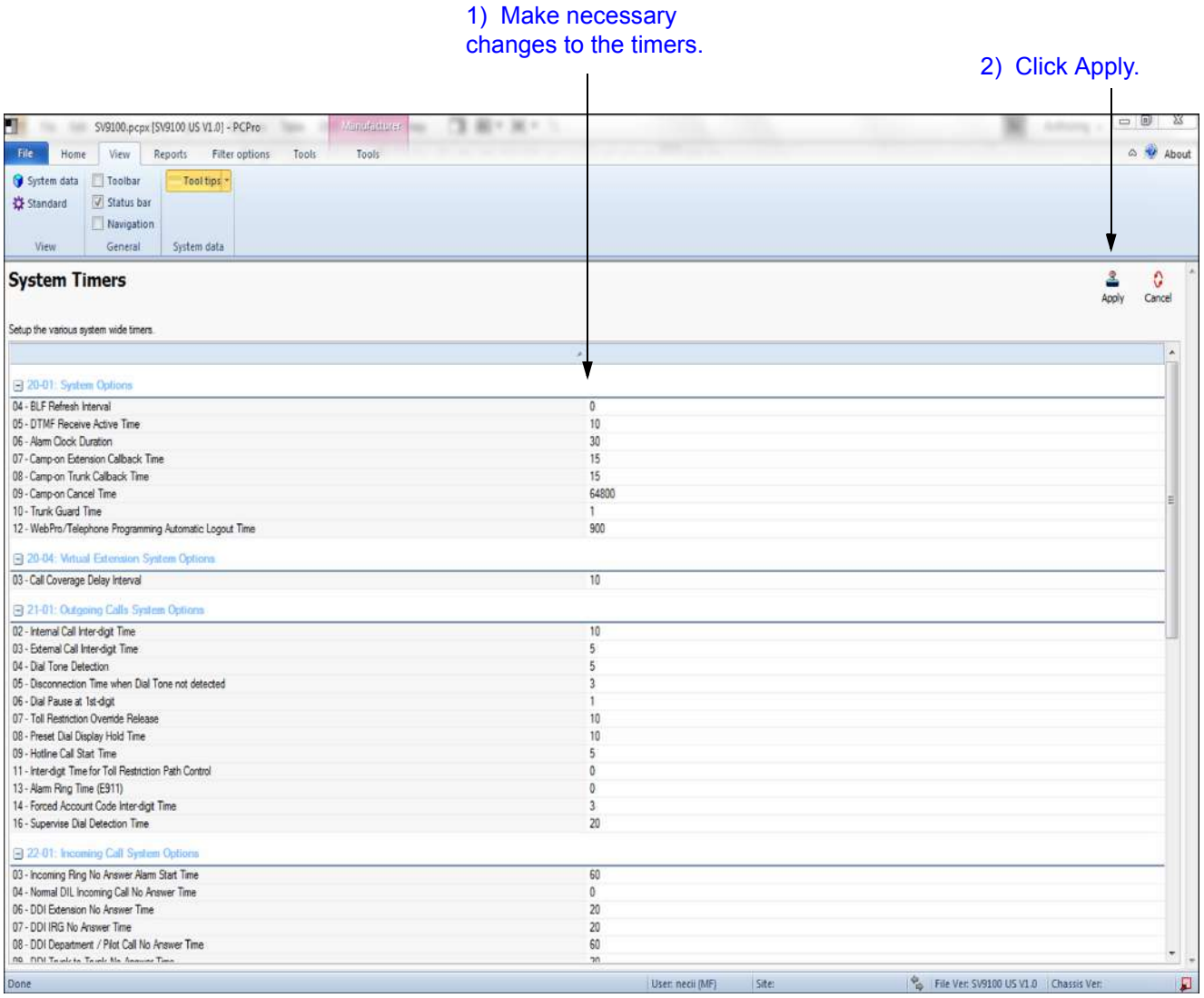
3. Select the extensions that are members of the Incoming Ring Group.

   These settings are linked with 22-04.

SECTION 12 SYSTEM TIMERS

This screen allows you to set up system-wide timers.

Figure 4-17 Standard View System Timers



The settings that can be changed on this screen include the individual timers.

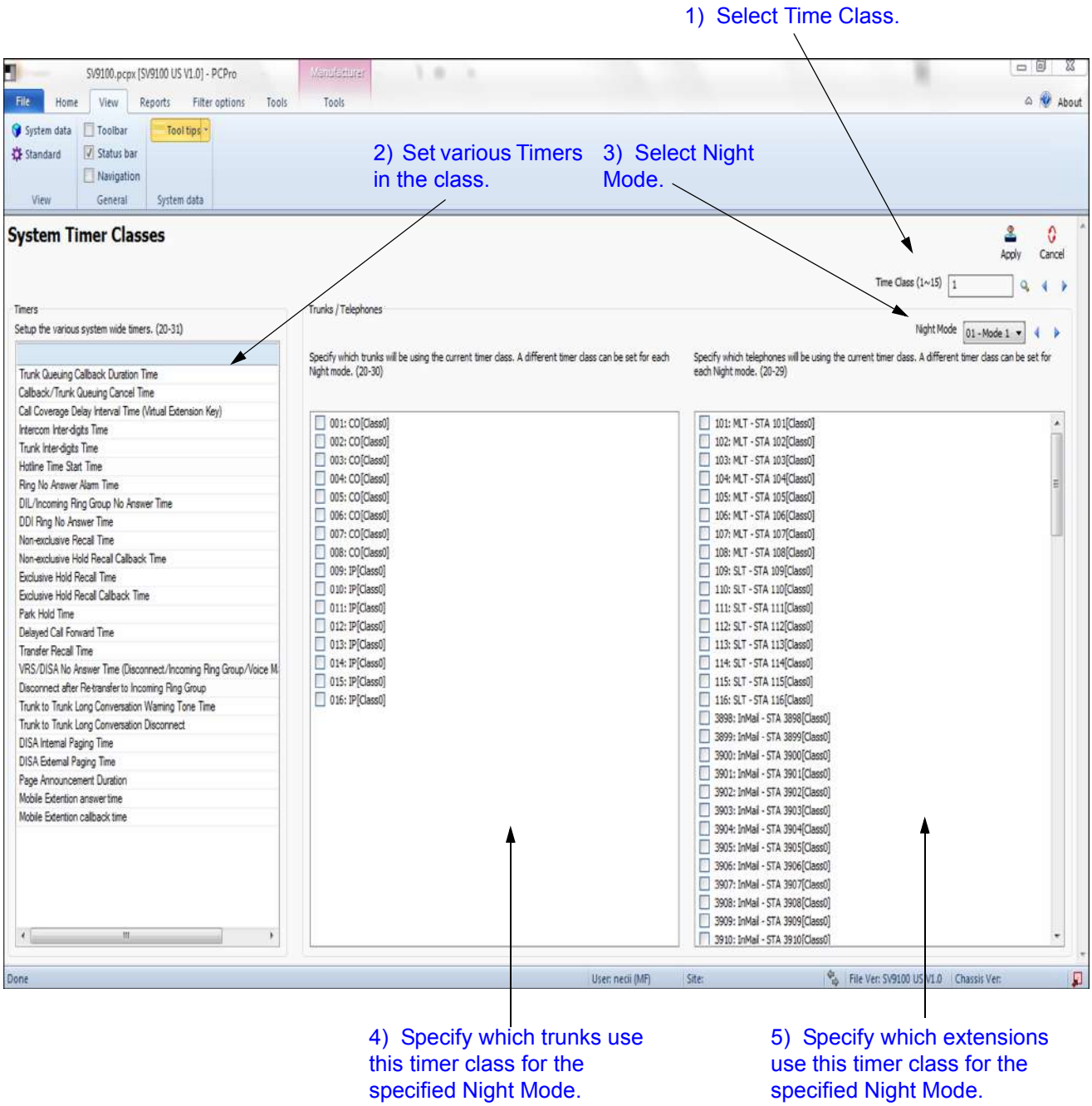
To change the timer settings from the default:

1. Click the value to the right of the time you want to change.
2. Change the timer setting and click **Apply**.

SECTION 13 SYSTEM TIMER CLASSES

This screen combines system data relevant to Timer Classes. Timer Classes detail sets of operation times. Trunks and extensions can be assigned as members of these classes for each of the system Night Modes.

Figure 4-18 Standard View System Timer Classes



The settings that can be changed on this screen include:

- **Time Class**: The Timer Class to which timers are assigned.
- **Night Mode**: The Night Mode assigned for night mode switching.
- **Timers**: The system wide timers that can be changed.
- **Trunks/Telephone**: Lists the trunks/telephones that are members of the class during the selected Night Mode.
- **Extensions**: Lists the extensions that are members of the class during the selected Night Mode.

To setup up a Timer Class complete the following:

1. Specify a **Time Class (1~15)** to modify.
2. Set the various timers for the specified Time Class.

   These settings are linked with 20-31. (All times are in expressed in seconds.)
3. Select a Night Mode.
4. Select the trunks/telephones that are members of the Time Class during the selected Night Mode.

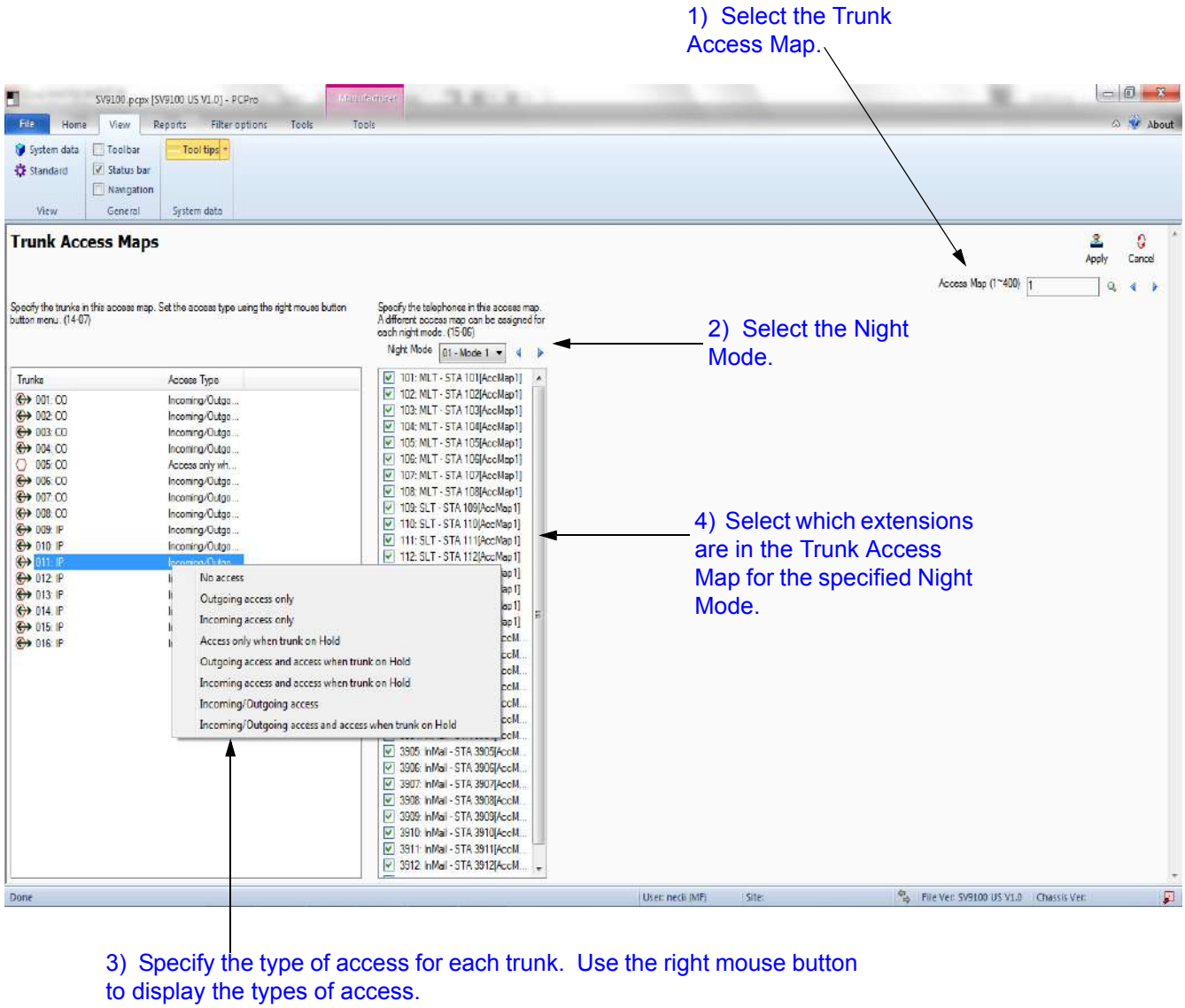
   These settings are linked with 20-30.
5. Select the telephone extension that will use members of the Time Class during the selected Night Mode. A different Time Class can be set to each Night Mode.

   These settings are linked with 20-29.

SECTION 14 TRUNK ACCESS MAP

This screen combines system data relevant to the Trunk Access Map. The Trunk Access Map administers the usage of trunks by the extension. Extensions can be assigned to one of the 400 Access Maps for each of the system Night Modes.

Figure 4-19 Standard View Trunk Access Map



To setup a Trunk Access Map complete the following:

1. Specify a trunk **Access Map (1~400)** to modify.
2. Select a **Night Mode**.
3. Specify the access type for each trunk using the Trunk Access Map.

   To modify the access type, right click the trunk then select an access type from the popup menu. These settings are linked with 14-07.

   The various access types are listed below:

Access Type	Image
No access	
Outgoing access only	
Incoming access only	
Access only when trunk on hold	
Outgoing access when trunk on hold	
Incoming access when trunk on hold	
Incoming/outgoing access	
Incoming/outgoing access when trunk on hold	

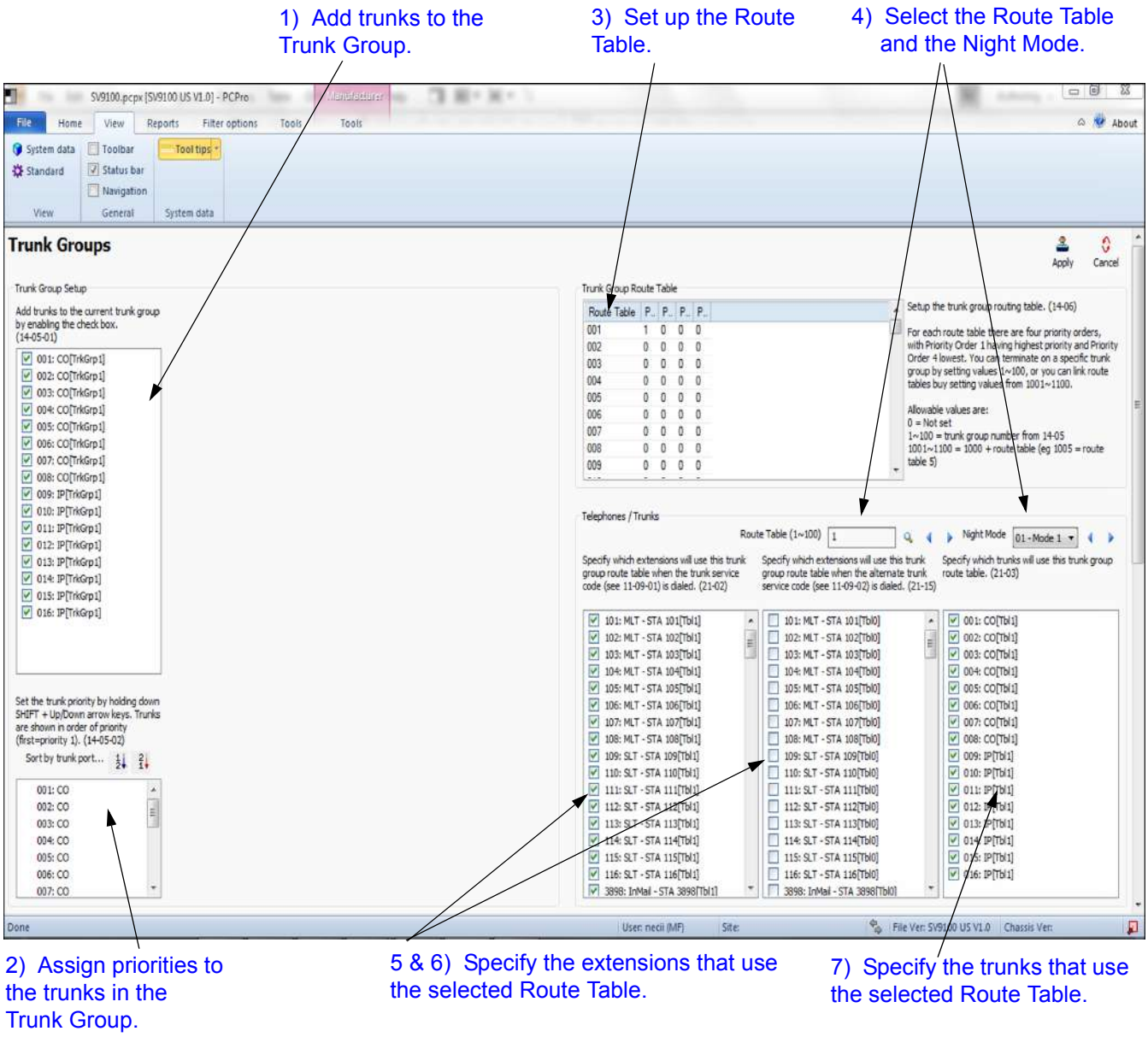
4. Select the extensions that use the Trunk Access Map during the selected Night Mode.

   These settings are linked with 15-06.

SECTION 15 TRUNK GROUPS

This screen combines system data relevant to Trunk Groups. Trunk Groups prioritize the use of a group of trunks. Priority of Trunk Groups can be done via the Route Table. A Route Table entry can then be used by trunks and extensions.

Figure 4-20 Standard View Trunk Groups



To setup a Trunk group complete the following:

1. Specify a **Trunk Group (1~100)** entry to modify.
2. Select the trunks that are members of the Trunk Group.

   These settings are linked with 14-05-01.
3. Prioritize trunks by ordering them in preference.

   These settings are linked with 14-05-02.

   When a trunk is selected as part of the Trunk Group it automatically appears in the priority list (the list to the bottom of the Trunk Group list). The priority of the selected trunk can be modified using the following key combinations:

   - Shift + Up Arrow — Increase priority by 1
   - Shift + Down Arrow — Decrease priority by 1
   - Shift + Page Up — Increase priority by one page
   - Shift + Page Down — Decrease priority by one page
   - Shift + Home — Make highest priority
   - Shift + End — Make lowest priority
4. To setup a Route Table entry:

   This entry defines four destinations where the Route Table entry directs calls. Calls can terminate on a Trunk Group or flow on to another entry in the Route Table.

   Destinations are prioritized 1~4 with 1 being the highest and 4 being the lowest. These settings are linked with 14-06.
5. To assign the extensions and trunks that use the Route Table Entry, select a **Route Table (1~100)** and a **Night Mode**.
6. Select the extensions that use the Route Table entry during the selected Night Mode.

   This applies to extensions using the Trunk Service Code to access trunks. These settings are linked with 21-02.
7. Select the extensions, during this Night Mode, that use the Route Table entry via the alternate Trunk Access Code.

   This applies to extensions using the alternate Trunk Service Code to access trunks. These settings are linked with 21-15.
8. Select the trunks, during this Night Mode, that use the Route Table entry.

   These settings are linked with 21-03.

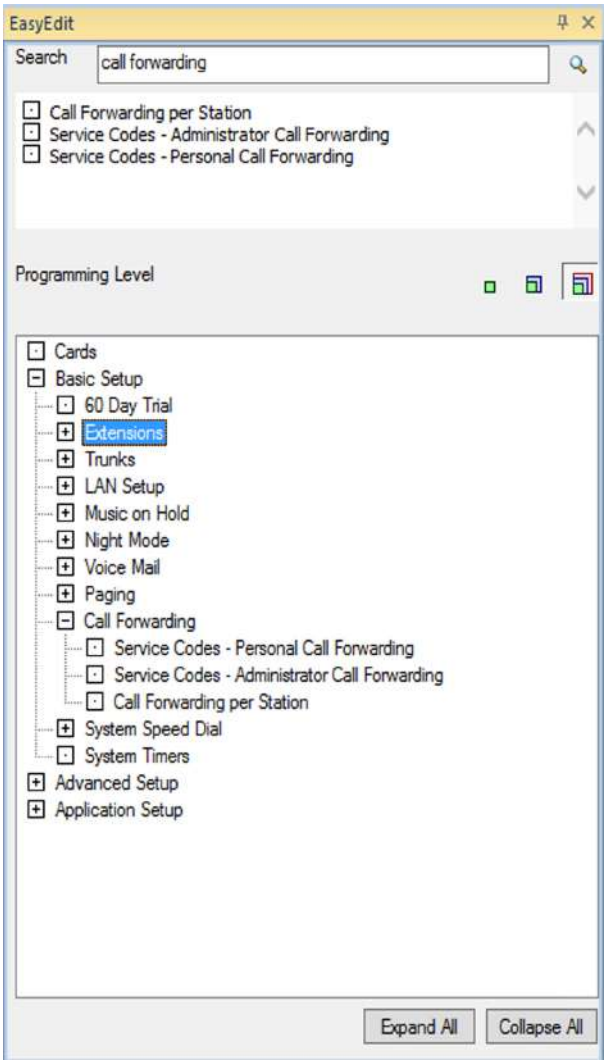
Easy Edit

Chapter 5

SECTION 1 OVERVIEW

Easy Edit is a system programming feature where system settings are grouped together by feature or equipment type. This allows commonly changed system settings to be quickly accessed and programmed when configuring a system.

Figure 5-1 Easy Edit Submenu



Window View: Clicking this icon displays the flyout, which allows you to select how you want the Easy Edit submenu displayed. Right mouse clicking also displays this menu.

Auto Hide: Clicking this icon hides the Easy Edit submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the Easy Edit submenu list and tabs.

SECTION 2 ACCESSING EASY EDIT VIEW

To access Easy Edit View complete one of the following:

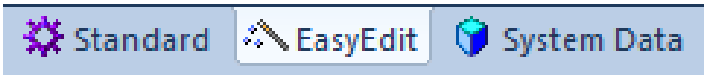
- ❑ Select **View Tab > Easy Edit.**

  -- or --

- ❑ Press **F12**.

  -- or --

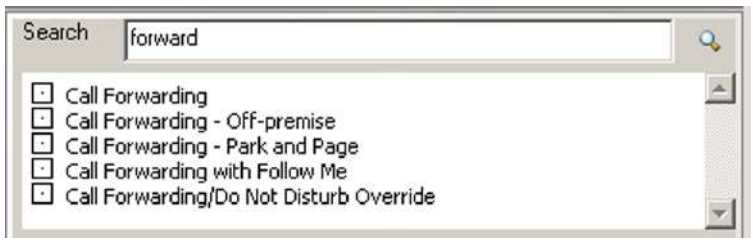
- ❑ If the Easy Edit submenu area is currently open, select the **Easy Edit** tab depicting the magic wand, located at the bottom on the submenu.



Easy Edit is a system programming feature where system settings are grouped together by feature or equipment type. This allows commonly changed system settings to be quickly accessed and programmed when configuring a system.

SECTION 3 SEARCHING FOR A FEATURE

You can use the search function of Easy Edit to locate a specific feature or use a keyword to find a group of related features. The example below shows entering the exact feature name to locate the feature and entering a keyword to locate a group of similar features. Start the search by either pressing the magnifying glass icon or pressing **Enter**.



SECTION 4 PROGRAMMING LEVELS

There are three levels in which feature programming is grouped. You can apply program filters to system data programming:

- ❑ Level 1 – are the most commonly assigned programs for a feature.
- ❑ Level 2 – are the next most commonly assigned programs for a feature.
- ❑ Level 3 – are programs that are not often assigned for a particular feature and require an expert level working knowledge of the system to be properly assigned.

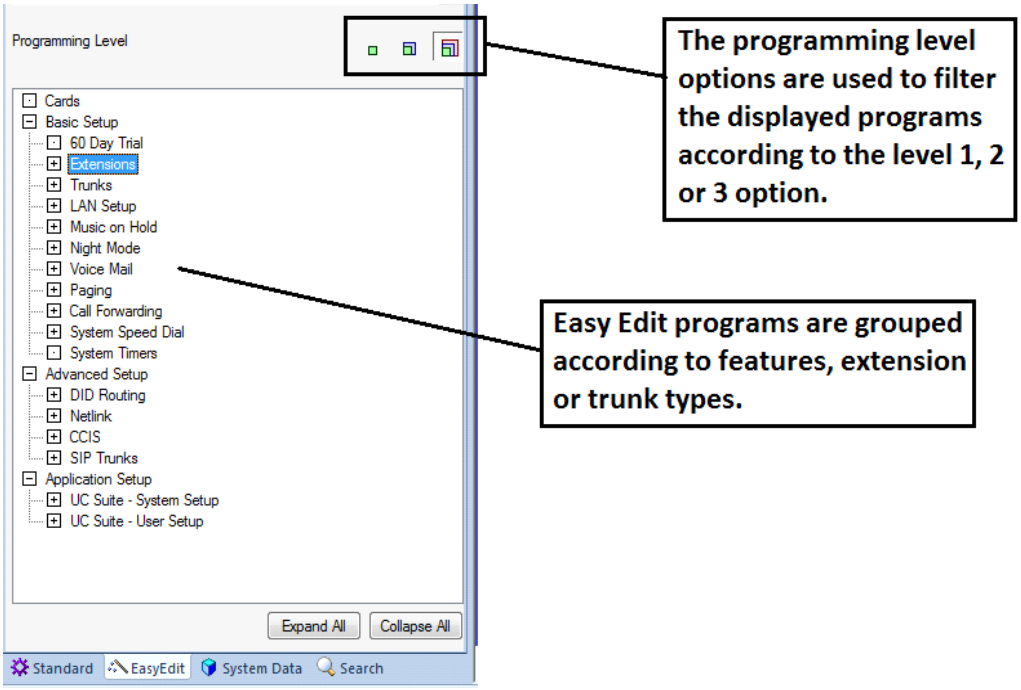
To show the level of programming for a feature:

1. Press the desired level to view the programs assigned at that level.
2. Select a feature.

SECTION 5 USING EASY EDIT

Easy Edit is a system programming feature where system settings are grouped together by feature or equipment type. This allows commonly changed system settings to be quickly accessed and programmed when configuring a system.

Figure 5-2 Easy Edit Tab



5.1 Filter Bar

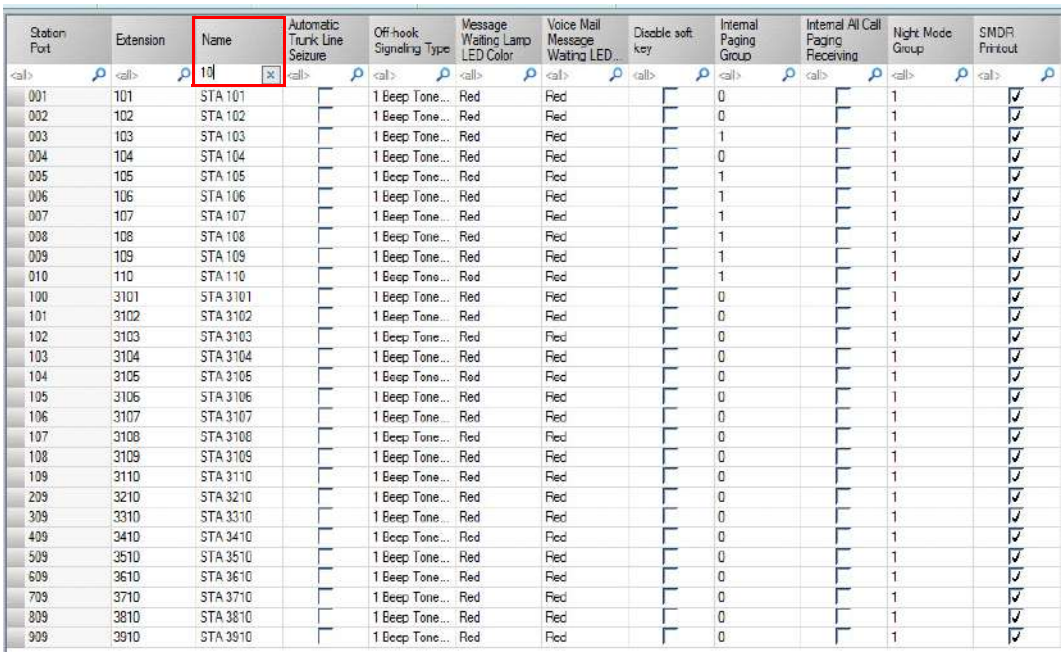
Filtering adds the ability to filter an easy edit page on any settable value for the selected column. Clicking on the Filter Bar icon will enable this feature.

Figure 5-3 Filter Bar

After the filter bar is displayed any value can be entered as a filter for a column. In the example below, the station name column was filtered for “10”, so any name that contains 10 will be shown. You can filter multiple columns for different values as needed.

Once in the Column array, data can be grouped using the Group Bar. To return the page back to default click on the “Default” icon.

Figure 5-4 Column Filter Example



Station Port	Extension	Name	Automatic Trunk Line Seizure	Off-hook Signaling Type	Message Waiting Lamp LED Color	Voice Mail Message Waiting LED..	Disable soft key	Internal Paging Group	Internal All Call Paging Receiving	Night Mode Group	SMDR Printout
<all>	<all>	10	<all>	<all>	<all>	<all>	<all>	<all>	<all>	<all>	<all>
001	101	STA 101		1 Beep Tone...	Red	Red		0		1	☑
002	102	STA 102		1 Beep Tone...	Red	Red		0		1	☑
003	103	STA 103		1 Beep Tone...	Red	Red		1		1	☑
004	104	STA 104		1 Beep Tone...	Red	Red		0		1	☑
005	105	STA 105		1 Beep Tone...	Red	Red		1		1	☑
006	106	STA 106		1 Beep Tone...	Red	Red		1		1	☑
007	107	STA 107		1 Beep Tone...	Red	Red		1		1	☑
008	108	STA 108		1 Beep Tone...	Red	Red		1		1	☑
009	109	STA 109		1 Beep Tone...	Red	Red		1		1	☑
010	110	STA 110		1 Beep Tone...	Red	Red		1		1	☑
100	3101	STA 3101		1 Beep Tone...	Red	Red		0		1	☑
101	3102	STA 3102		1 Beep Tone...	Red	Red		0		1	☑
102	3103	STA 3103		1 Beep Tone...	Red	Red		0		1	☑
103	3104	STA 3104		1 Beep Tone...	Red	Red		0		1	☑
104	3105	STA 3105		1 Beep Tone...	Red	Red		0		1	☑
105	3106	STA 3106		1 Beep Tone...	Red	Red		0		1	☑
106	3107	STA 3107		1 Beep Tone...	Red	Red		0		1	☑
107	3108	STA 3108		1 Beep Tone...	Red	Red		0		1	☑
108	3109	STA 3109		1 Beep Tone...	Red	Red		0		1	☑
109	3110	STA 3110		1 Beep Tone...	Red	Red		0		1	☑
209	3210	STA 3210		1 Beep Tone...	Red	Red		0		1	☑
309	3310	STA 3310		1 Beep Tone...	Red	Red		0		1	☑
409	3410	STA 3410		1 Beep Tone...	Red	Red		0		1	☑
509	3510	STA 3510		1 Beep Tone...	Red	Red		0		1	☑
609	3610	STA 3610		1 Beep Tone...	Red	Red		0		1	☑
709	3710	STA 3710		1 Beep Tone...	Red	Red		0		1	☑
809	3810	STA 3810		1 Beep Tone...	Red	Red		0		1	☑
909	3910	STA 3910		1 Beep Tone...	Red	Red		0		1	☑

5.2 Group By

The Group By option adds the ability to sort displayed data on an easy edit page by any of the setting options for that page, or by any settable value for the selected column. Clicking on the Group by icon will enable this feature.

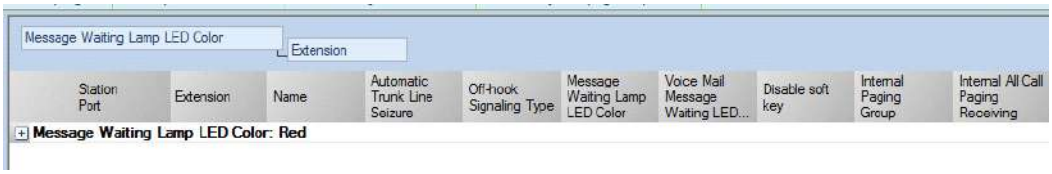
Figure 5-5 Group By Option

To set group by options, simply click on the **Group By** option. Then drag a column heading into the group by area to use that as a grouping option. Grouping options are set as priority in the order they were added. In the example below, the grouping is first done by Message Waiting Lamp LED Color, then by Extension number. Grouping can be done as needed in any order and by as many options as there are columns on a particular page.

The **Expand All** and **Contract All** features are used to expand or contract all grouping.

Once grouped, data can be filtered using the Filter Bar. To return the page back to default, simply click on the “Default” icon.

Figure 5-6 Group By Message Waiting Lamp LED Color Example



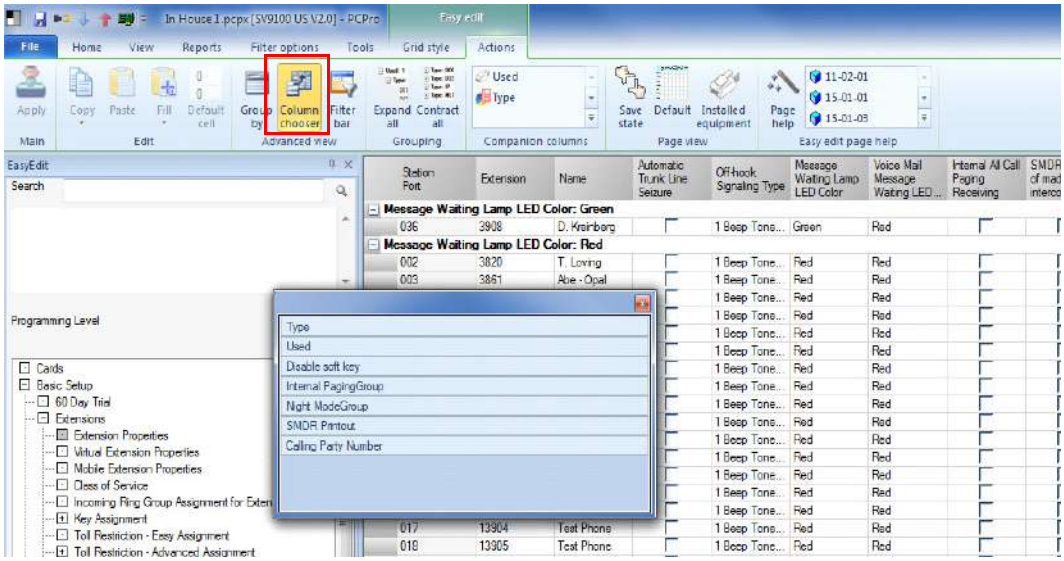
5.3 Column Chooser

The Column Chooser allows the customization of pages to display only the desired columns. Clicking the **Column Chooser** icon will bring up a window to which columns can be dragged in and out of. To remove a column, click the heading and drag it to the Column Chooser window. To add a column click the heading and drag it into the Column array area.

Once in the Column array area columns can be filtered using the Filter Bar or grouped using the Group Bar. Columns can also be moved as needed by clicking and holding the column title then dragging it to the desired position. The order of a column can be changed from high to low or low to high. For instance, the extension column can start with extension 101 at the top or with extension 3961. To change the order click on the column title box, an arrow will appear in that box that when clicked will change to sort order for that column.

To return the page back to default simply click on the “Default” icon.

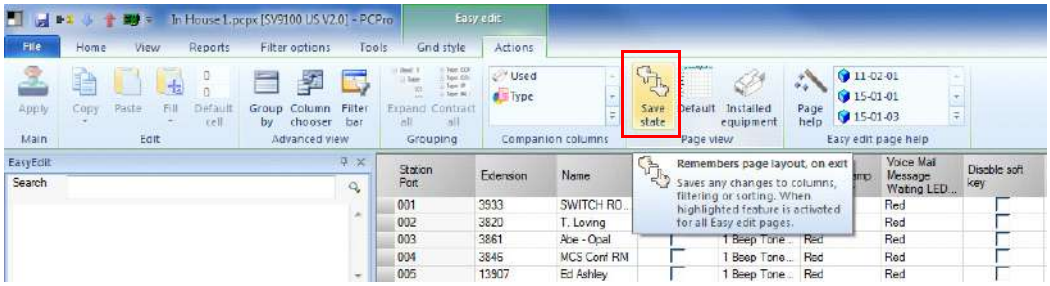
Figure 5-7 Column Chooser Example



5.4 Save State

Once modified, Easy Edit pages can be saved so the same options are displayed each time that page is opened. The current view state of the Easy Edit page as set is saved and is displayed each time you enter the page. You must also save the database to retain this setting on exit. To return the page back to default click on the “Default” icon and choose to Save State again.

Figure 5-8 Save State Example



Settings remembered:

• Column Chooser

• Group By

• Filter Bar enabled or disabled

• Column width

• Column order

Settings not remembered:

• Filter strings

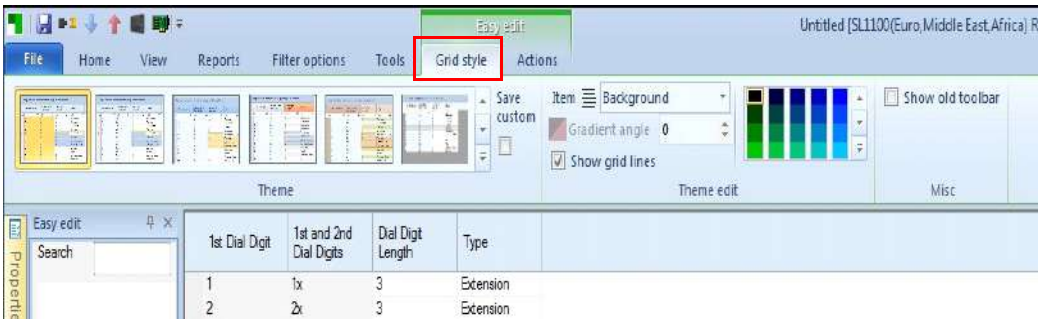
5.5 Grid Style and Custom Themes

In addition to the old controls on the new ribbon bar, the ‘Grid style’ has been added to use a predefined theme, create a custom theme, or edit an existing theme. This allows the simple selection of six color themes and to make your own theme and save to six custom slots.

There are many color and gradient options for the grid including color/gradient attributes for each grid area such as odd/even rows, groups, header, selection and others. This allows users to select the scheme that best suits them.

There are six predefined themes that can be used to change the colors used to highlight column information. In addition six custom themes can be created. There are many color and gradient options for the grid including color/gradient attributes for each grid area such as odd/even rows, groups, header, selection and others. This allows users to select or create the scheme that best suits them.

Figure 5-9 Save State Example



Any aspect provided by the grid theme can be changed using the ‘Theme edit’ panel. First select the Item from the dropdown list. Either the color picker will enable or the gradient spin control.

There are no less than 46 different areas that a color or gradient can be chosen for on the grid.

- Selected cell colors
- Odd and even row colors
- Header
- Grid lines
- Background
- Left offset

Selected header colors Each with a setting for:

• Background

• Text

• Border

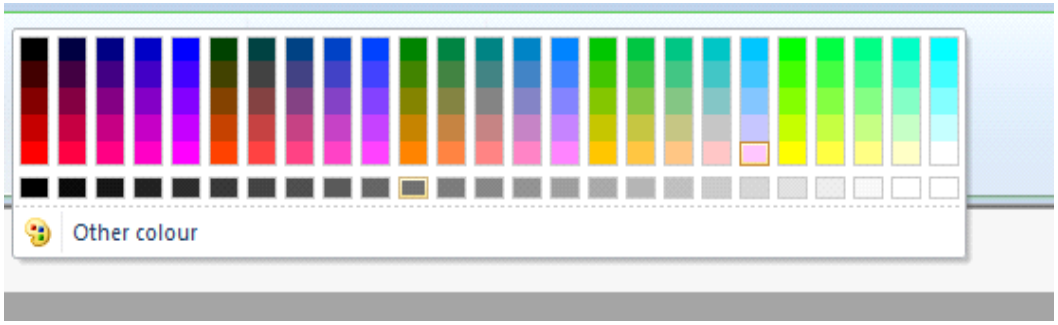
• Gradient color

• Gradient angle

• Grid Lines or no grid lines.

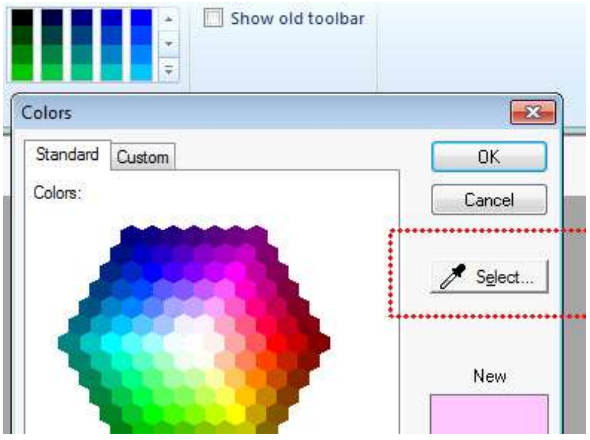
The range of colors follows the colors supported by the user's PC.

Figure 5-10 Color Selection Example



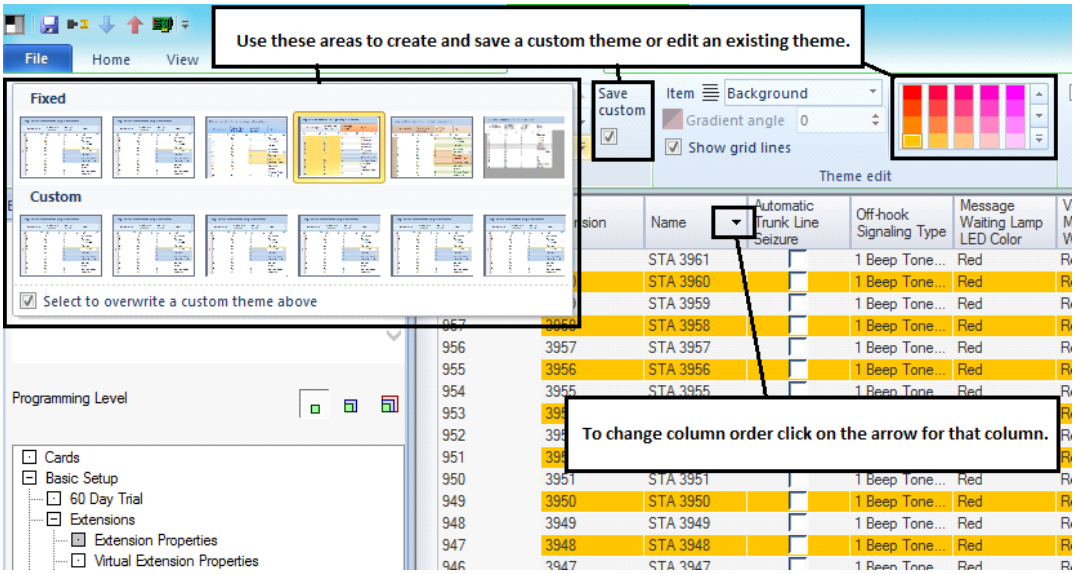
The initial box contains 125 colors and 25 grays, but clicking the 'Other colors' button will bring up the color picker from which the user can even use the 'Select' pipette and touch anywhere on their screen to pick up the color.

Figure 5-11 Choosing the Color Picker



To save a custom theme, choose one of the undefined themes, make changes as desired, then check the “Save Custom” box when finished. A predefined theme can be changed and by checking the “Save Custom” will over-write the default settings for the selected theme.

Figure 5-12 Saving a Custom Theme



PCPro SD Card Copy

Chapter 6

SECTION 1 OVERVIEW

The SD card copy is used to migrate from an S (1GB) SD Drive to the larger E (4GB) SD Drive-based system, and is also used if replacing the GCD-CP10 for any reason. See below for details on using and what data is moved for each mode.

There are two modes to use:

- ❑ Standard to migrate from an S (1GB) SD Drive to the larger E (4GB) SD Drive-based system.
- ❑ Advanced when replacing a GCD-CP10 with a SD Drive of the same size.

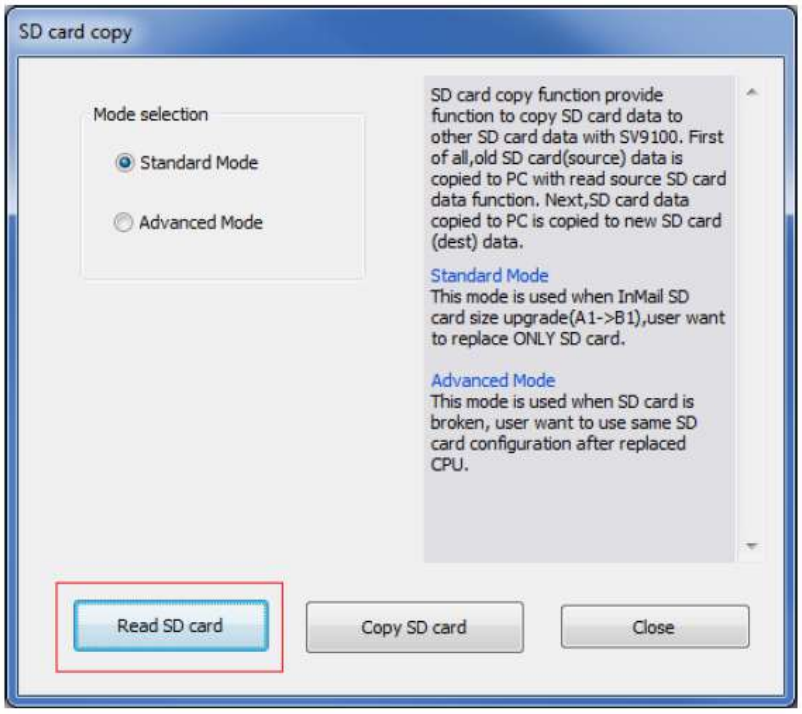
1.1 Standard Mode

Standard Mode copy is used when migrating from an S (1GB) SD Drive to an E (4GB) SD Drive. Only the following items are migrated using this process and none are optional:

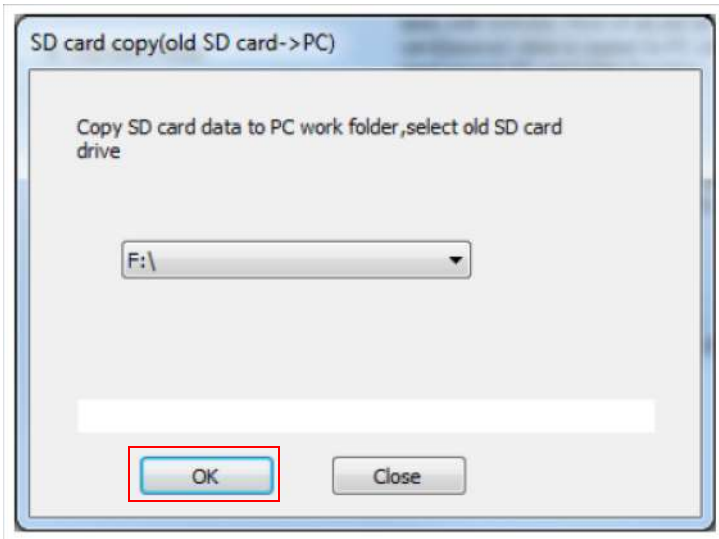
1. System Database: The system database as programmed, the same information as a database backup.
2. License Data: Any licenses that have been applied to the system but note the built in 48 resource licenses are not moved.
3. InMail Messages: Stored voice mail messages.
4. InMail Greetings: Recorded user greetings.

1. To copy the old SD Drive data SD Card Copy from the Home tab under Maintenance choose **SD card copy**.

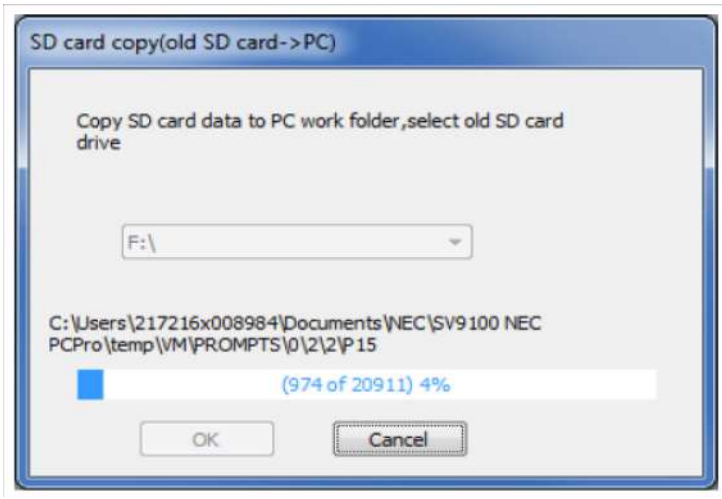
2. Choose **Standard Mode**.



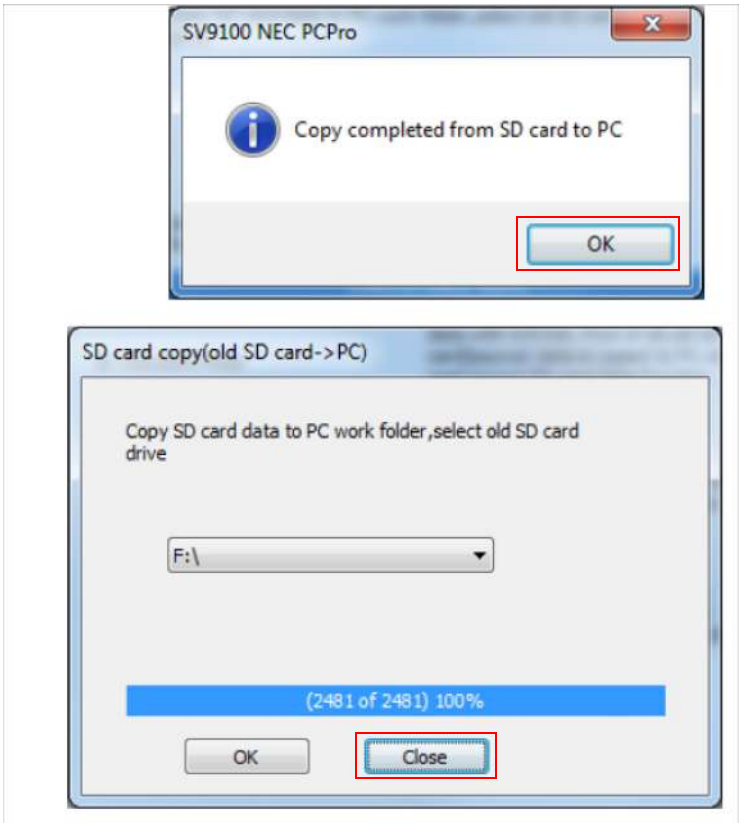
3. When Prompted, choose the originating drive from the pull down menu and click **OK**.



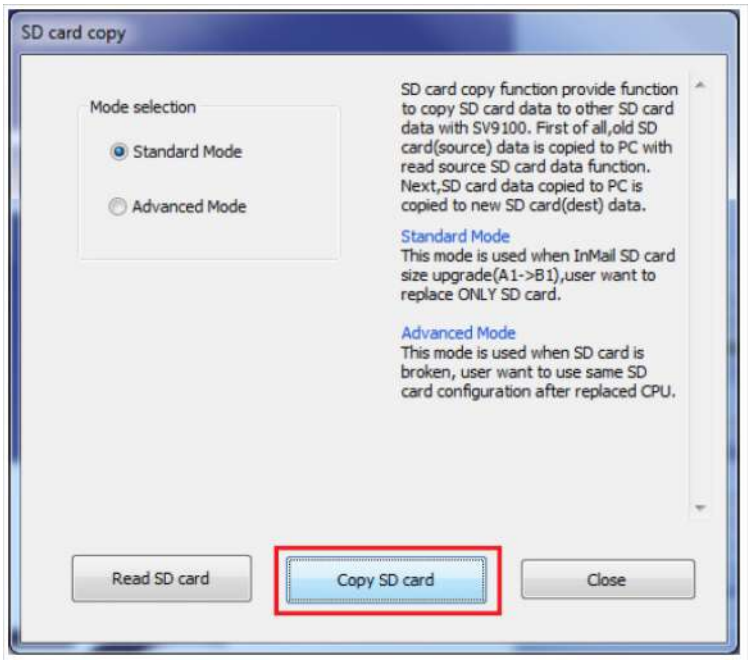
4. The copy process starts.



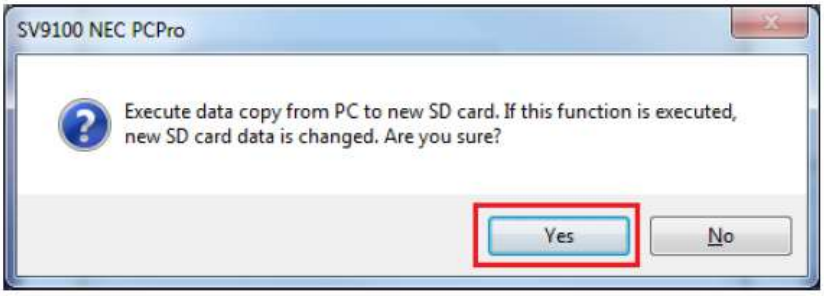
5. Once the copy process has finished, click **OK**, then click on **Close**.

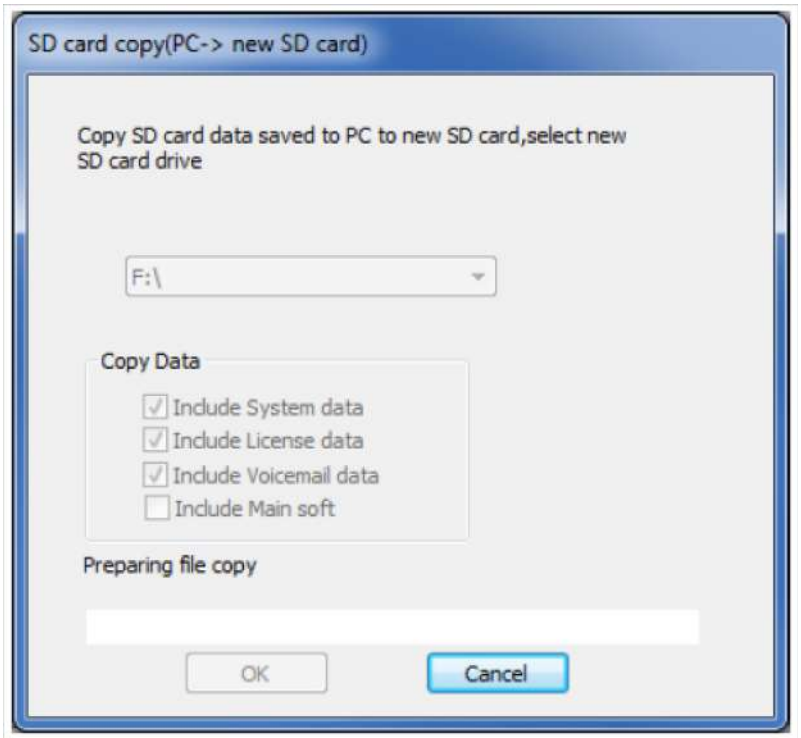


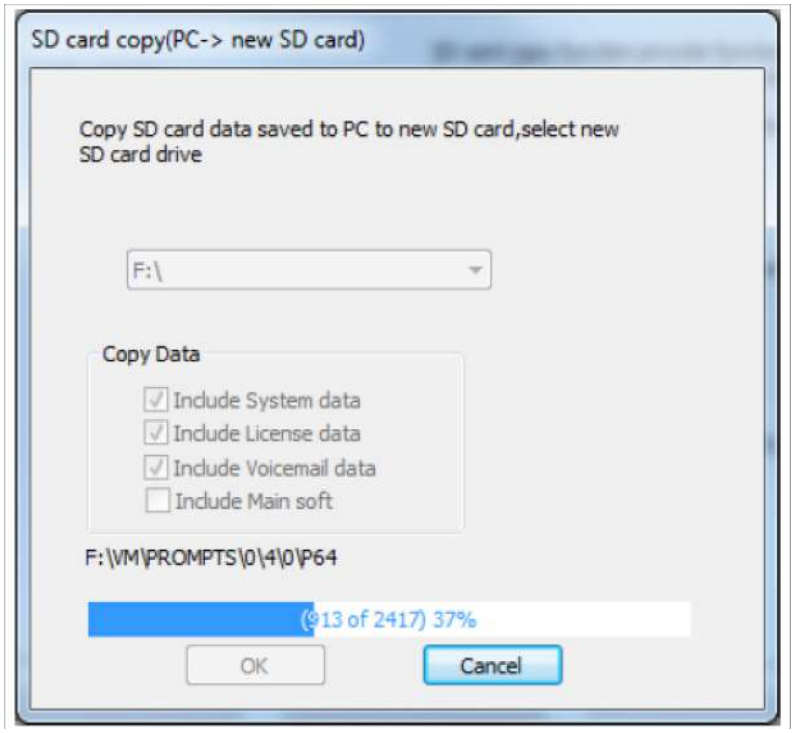
6. Safely eject the old SD Card from Windows.
7. Insert the destination SC Card into the PC.
8. Click on **Copy SD Card**.



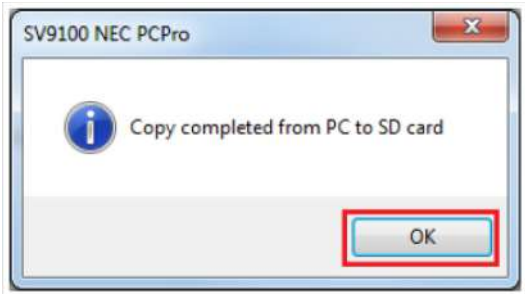
9. When prompted, choose the destination drive from the pull down menu.
10. When Prompted, click on **Yes** to start copying data to the new SC drive. The Copy Data options are fixed for Standard Mode copy and cannot be changed. Note - the destination SD is prepared by PC Pro before the copy will start and this process can take a several minutes.



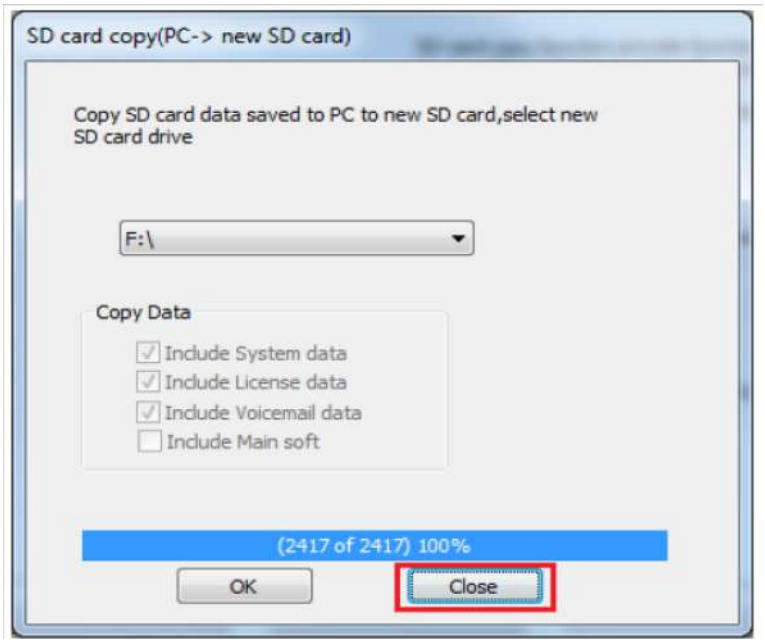

SD card copy(PC-> new SD card)
Copy SD card data saved to PC to new SD card,select new SD card drive
F:\
Copy Data
Include System data
Include License data
Include Voicemail data
Include Main soft
Preparing file copy
OK
Cancel


SD card copy(PC-> new SD card)
Copy SD card data saved to PC to new SD card,select new SD card drive
F:\
Copy Data
Include System data
Include License data
Include Voicemail data
Include Main soft
F:\VM\PROMPTS\0\4\0\P64
(913 of 2417) 37%
OK
Cancel

11. Once the copy process completes, click on **OK**.



12. Click on **Close** to close the copy window.

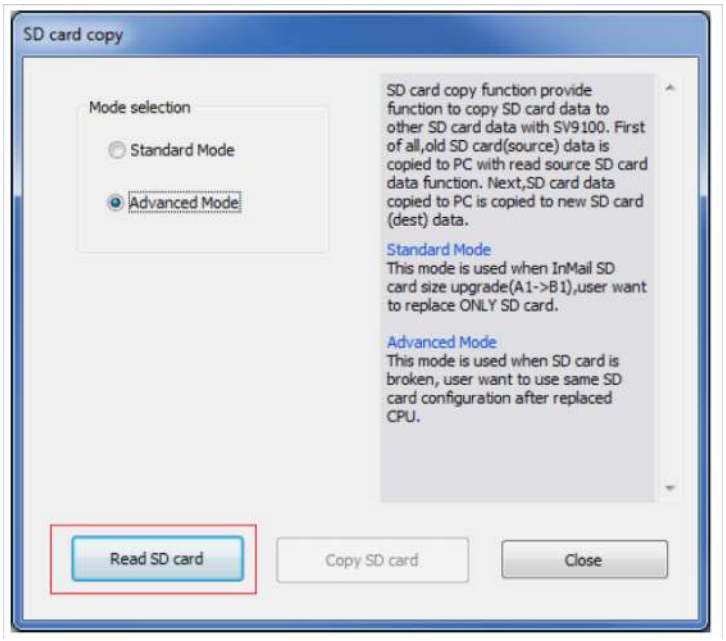


1.2 Advanced Mode

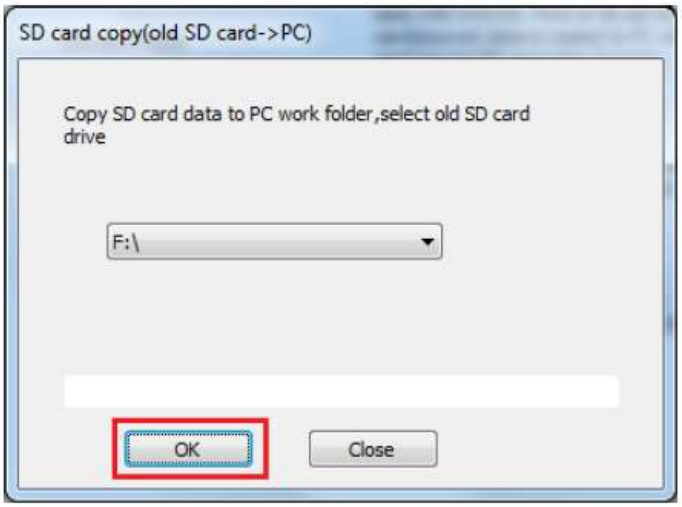
Advanced Mode copy is used if a SD Drive is being replaced with a new SD drive of the same size, either an S (1GB) or E (4GB). The items below are selectable options when using Advanced Mode copy.

- System Database – The system database as programmed, the same information as a database backup.
- License Data – Any licenses that have been applied to the system.
- InMail Messages – Stored voice mail messages.
- InMail Greetings – Recorded user greetings.
- Main System software – The system software on the SD Card to be copied, for example v1.70.00. If this option is not selected, the software installed on the destination GCD-CP10 will be used.

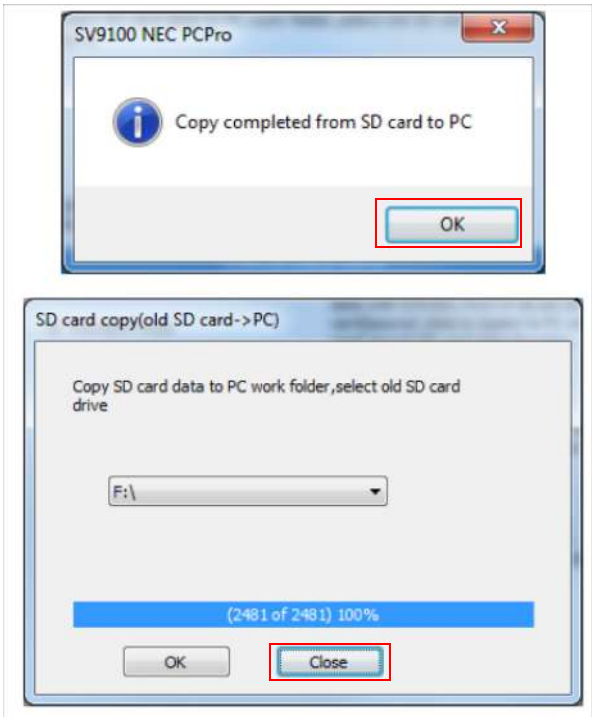
1. To copy the old SD Drive data SD Card Copy from the Home tab under Maintenance, choose **SD card copy**.
2. Choose **Advanced Mode**.
3. Click on **Read SD Card**.



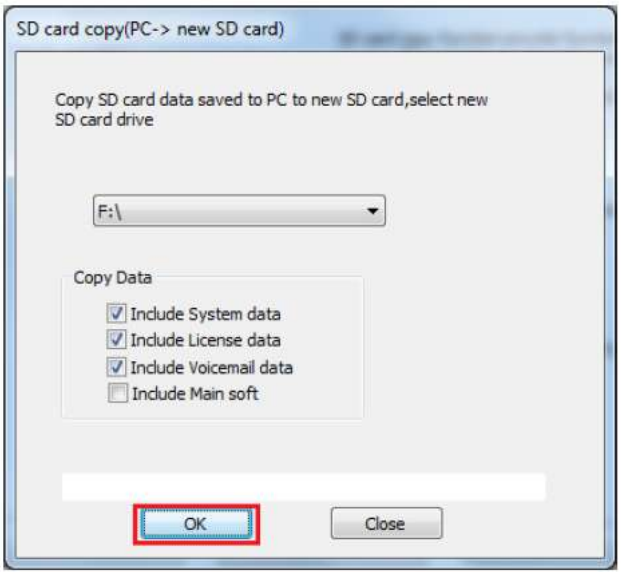
4. When prompted, choose the originating drive from the pull down menu, then click **OK**.



5. Once the copy process finishes, click on **OK**, then click on **Close**.

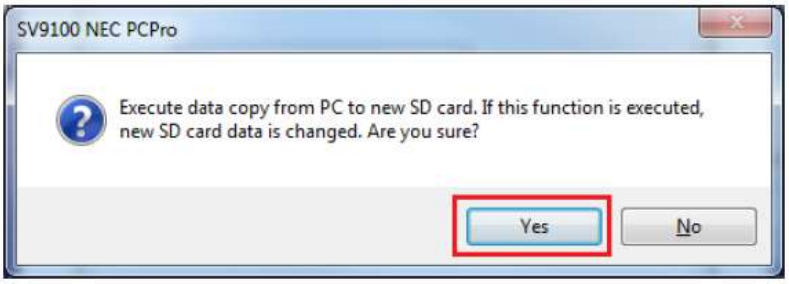


6. Safely eject the old SD Card from Windows.
7. Insert the destination SD Drive into the PC.
8. Click on **Copy SD card**. The window that comes up allows for items to be selected or deselected as needed. All of the choices are optional:
   - ❍ System Database: The system database as programmed, the same information as would be included in a database backup.
   - ❍ License Data: Any licenses that have been applied to the system.
   - ❍ InMail Messages: Saved voice mail messages.
   - ❍ InMail Greetings: Recorded user greetings.
   - ❍ Main System software: The system software on the SD Card to be copied, for example v1.70.00. If this option is not selected the software installed on the destination GCD-CP10 will be used. If this option is selected the software version of the originating SD Drive will be used on the new system.

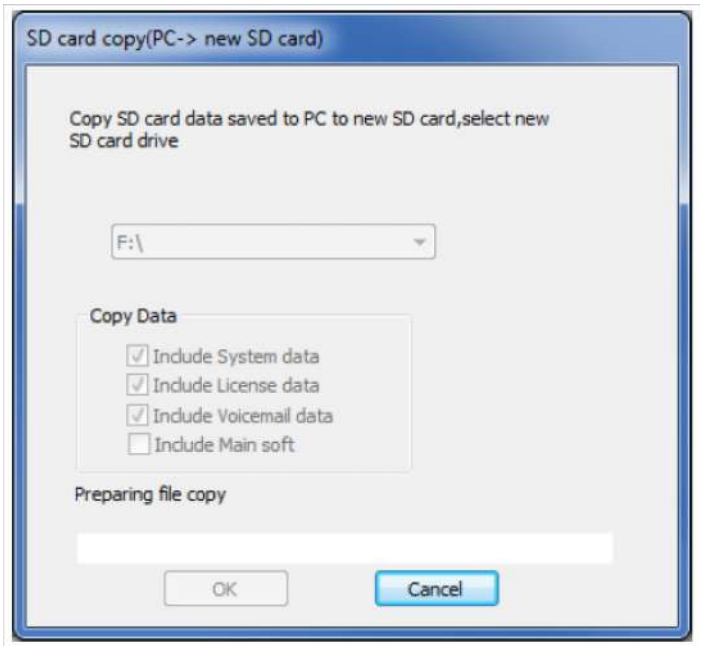


9. Select the desired option(s).
10. Choose the destination drive from the pull down menu, then click **OK**.

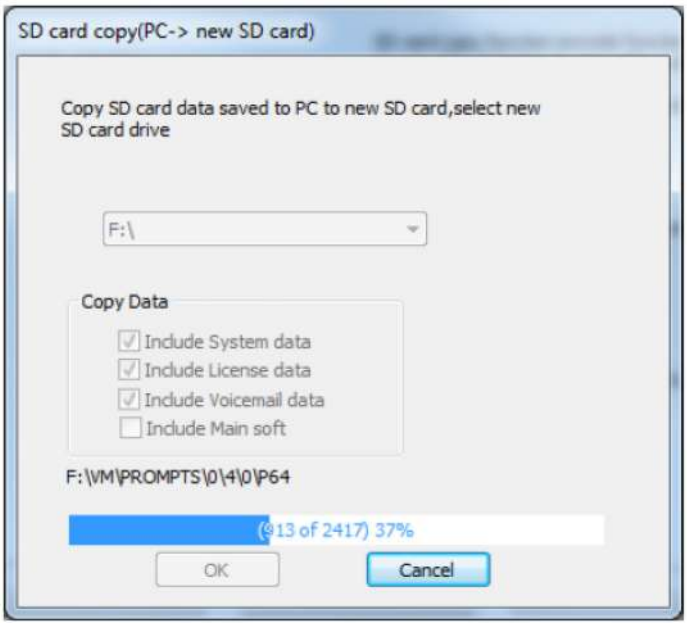
11. When prompted, click on Yes to start copying data to the new SD drive.



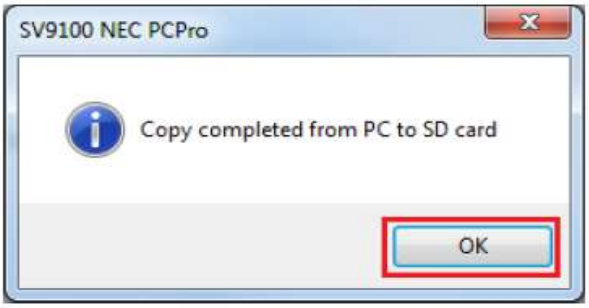
Note the destination SD is prepared by PC Pro before copying starts and this process can take several minutes.



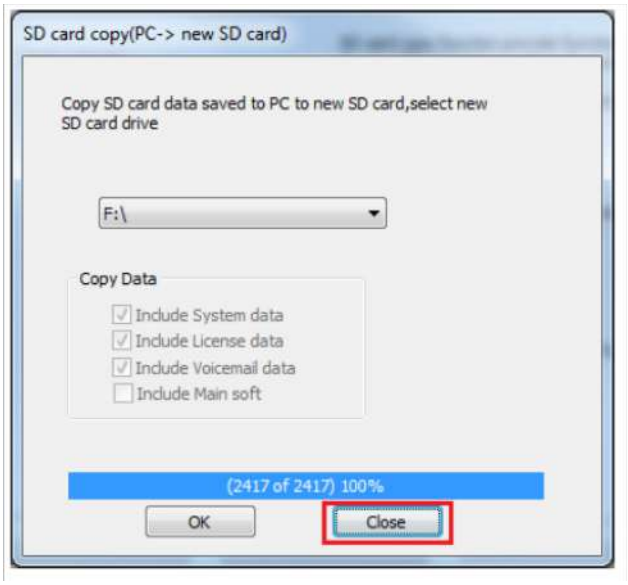
Depending on the options selected, the Advanced copy can go much faster. The largest data to move is always the InMail messages and greetings.



12. Once the process has completed, click on **OK**.



13. Click on Close to close the copy window.



System Data View

Chapter 7

SECTION 1 OVERVIEW

System Data represent systems settings as per the categorization used by main software. This categorization separates settings into System Data items called ‘PRGs’ (programs). PRGs are identified by their ID and name. The ID and name indicate what settings the System Data is related to. An example of a PRG identifier can be seen below, ‘10-02’ is the ID and ‘Location Setup’ is the name:

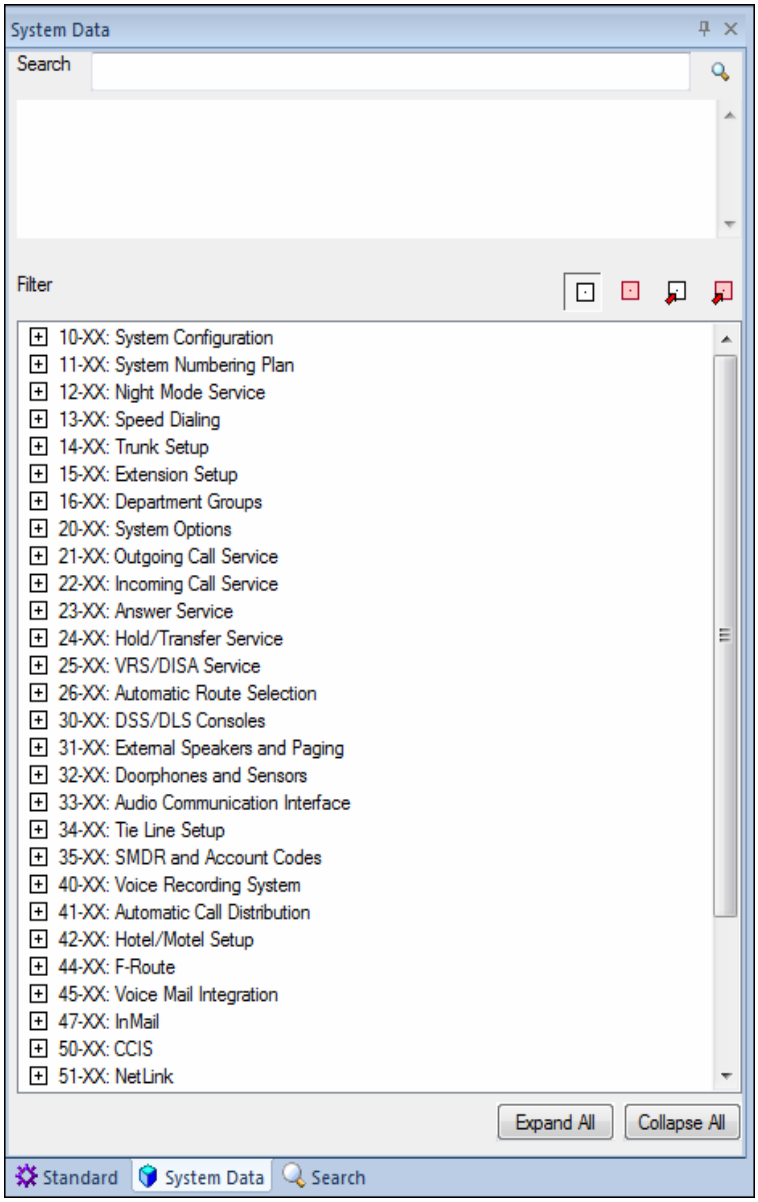
10-02: Location Setup

PRGs are grouped by their relationship into ‘PRG Groups’. PRG Groups are identified by their ID and name. The ID and Name indicate what settings the System Data is related to. An example of a PRG identifier can be seen below, ‘10-XX’ is the ID and ‘System Configuration’ is the name:

10-XX: System Configuration

Since System Data Programming does not group together the programs for a function/feature as with Easy Edit and Standard screens, System Data Programming is intended for advanced users of PCPro who are very familiar with programming a system.

Figure 7-1 System Data Submenu



Auto Hide: Clicking this icon hides the System Data submenu list and docks the tabs on the left side of the screen.

Close: Clicking this icon closes the System Data submenu list and tabs.

SECTION 2 ACCESSING SYSTEM DATA VIEW

To access System Data View, complete one of the following:

- ❏ Select the menu item **View > System Data**.

  -- or --

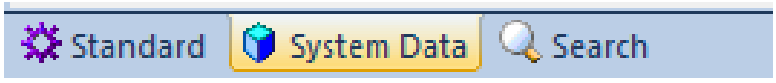
- ❏ Select the toolbar icon depicting the blue block .

  -- or --

- ❏ Press **F11**.

  -- or --

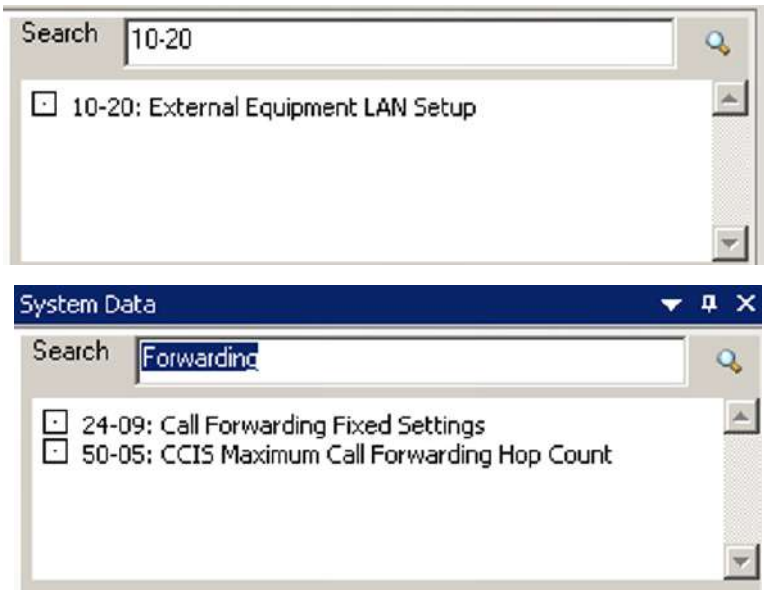
- ❏ If the Programming submenu area is currently open, select the **System Data** tab depicting the blue box, located at the bottom on the submenu.



The System Data View Menu appears in the submenu area. System Data is grouped by PRG Groups and ordered numerically by ID. You can use the Expand All to view all of the items under each Program Number or Collapse All to return to the numeric program listing. You can individually expand or collapse a program number pressing ⊞ or ⊟ .

SECTION 3 SEARCHING FOR A PROGRAM

You can use the search function of Program Data to locate a specific program or use a keyword to find a group of related programs. The example below shows entering a program number to locate a specific program and entering a keyword to locate a group of similar programs. Start the search by either pressing the magnifying glass icon or pressing **Enter**.



SECTION 4 SYSTEM DATA PROGRAM FILTERING

When selecting programs from the system data list, you can select from the following filters:

- ❑ – shows all system data.
- ❑ – shows only unsaved system data.
- ❑ – show only system data that needs to be uploaded.
- ❑ – shows only system data that is unsaved and needs to be uploaded.

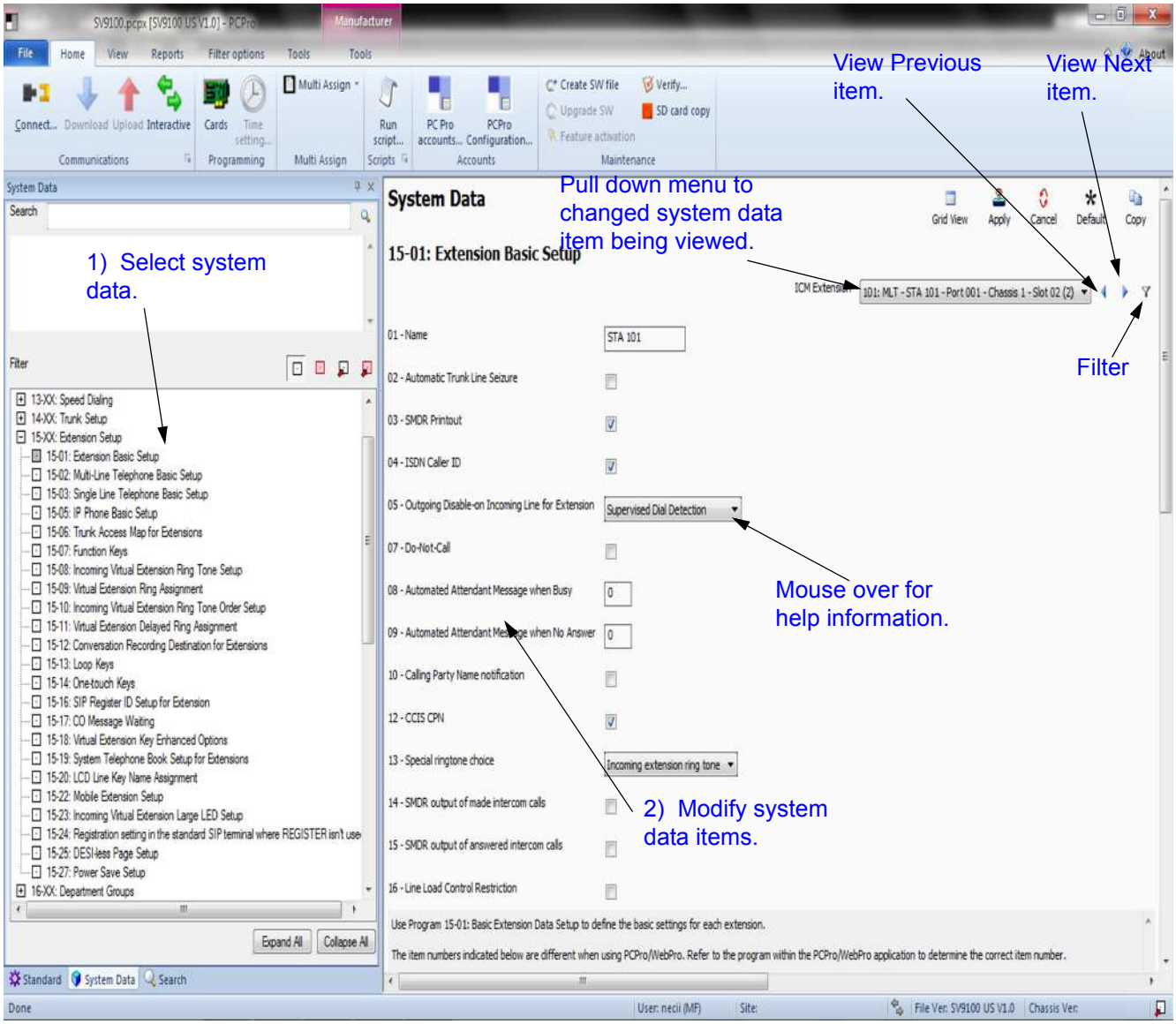
To show the level of programming for a feature:

1. Select a program.
2. Press the desired filter and view the filtered programs.

SECTION 5 USING SYSTEM DATA

System Data screens are intended for advanced users who are very familiar with using PCPro. If you are not familiar with PCPro, you should use either the Standard View or Easy Edit. Standard View and Easy Edit are grouped together to help guide you through system data necessary for programming various features of the system.

Figure 7-2 System Data Programming



To modify system data:

1. Select a PRG from the System Data View submenu.
2. Modify the desired settings on the screen.
3. Press the **Apply** button to save the changes.

When programming system data, changes are applied:

- ❏ when the **Apply** button is pressed.
- ❏ when the you change the system data item link.
- ❏ when you modify the current system data item filter.
- ❏ when you exit System Data View, except when the **Cancel** button is pressed.

Menu and Toolbar Reference

Chapter 8

SECTION 1 OVERVIEW

This chapter provides a table that can be used as a reference between the menus, toolbar icons and keyboard shortcuts. Most functions have more than one method for accessing it. Any sub-menus are listed with their associated menu.

SECTION 2 MENUS AND TOOLBARS

The menu (located at the top of the screen) allows access to a list of functions provided by PCPro. The toolbar provides a graphical icon interface to some of the more commonly used functions.

Figure 8-1 Menu and Toolbar

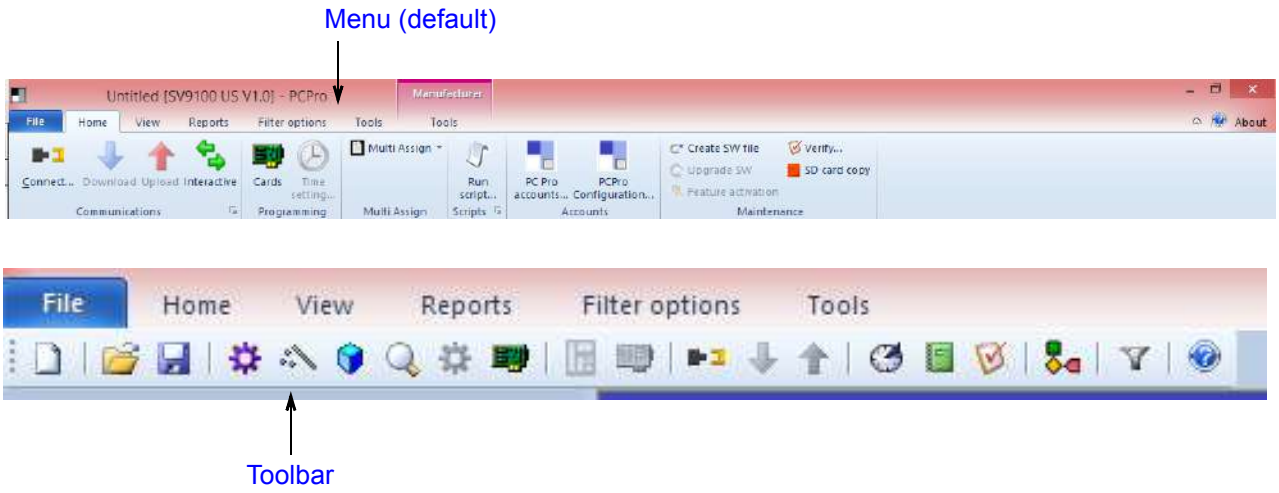


Table 8-1 Menus lists the menu options, provides a brief description of the menu and shows an graphical representation of the menu display. Some menu items have a flyout, indicated by the ▶, which provides additional options for that selection.

Table 8-1 Menus

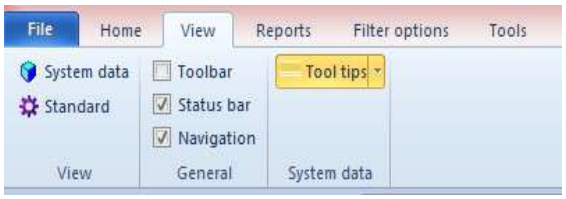
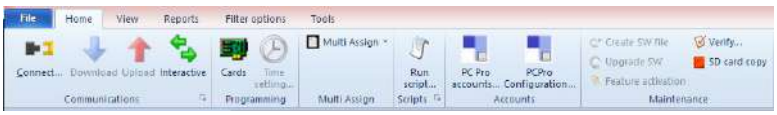
Menu	Description	Menu Display
File	This menu provides access to: ❍ functions related to creating and saving files ❍ sending an e-mail with an active configuration attached ❍ displaying the properties for an active configuration ❍ allowing users to log off and log in as a different user ❍ exiting PCPro	
View	This menu allows you to: ❍ show/hide the Toolbar ❍ show/hide the Status Bar ❍ show/hide the Tool Tips ❍ show/hide the Submenu Area	
Home	This menu provides access to: ❍ Connect/Disconnect to PCPro ❍ Upload/Download files ❍ Go to Interactive Menu items ❍ view/edit blade configurations ❍ set the system time ❍ make multiple assignments for Account Codes, Appearance Keys, Extensions, and Function Keys ❍ Run Scripts ❍ Configure PCPro Accounts ❍ PCPro configuration settings ❍ Create software files ❍ Upgrade software files ❍ Feature activation ❍ Verify ❍ SD Card copying	

Table 8-1 Menus (Continued)

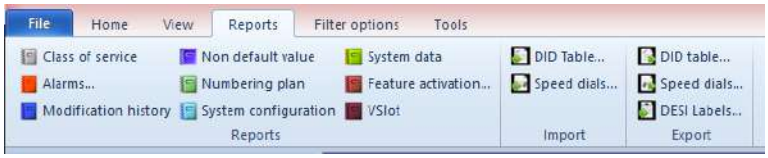
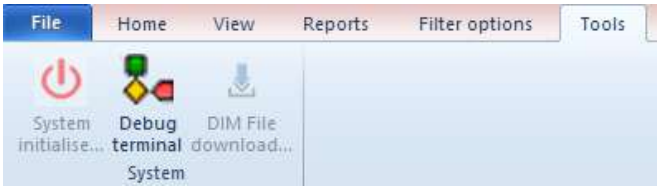
Menu	Description	Menu Display
Reports	This menu allows you to various reports on system settings: ❍ Class of Service settings ❍ Alarm status ❍ History of modifications ❍ Non default values settings ❍ Numbering Plan settings ❍ System configuration settings ❍ System Data settings ❍ Feature Activation ❍ VSlot ❍ Import DID Tables and Speed Dial numbers ❍ Export DID Tables, Speed Dial numbers and DESI Labels	
Filter	This menu allows you to filter by: ❍ IP Phone list ❍ Mobile Extension list ❍ Unused Phone list ❍ Unregistered Phones ❍ Unused Trunk list ❍ Unregistered Trunk list ❍ Filter by Extension ❍ Filter by Trunk	
Tools	This menu provides access to: ❍ Initialize the System ❍ Launch the Debug Terminal ❍ DIM File download	

Table 8-1 Menus (Continued)

Menu	Description	Menu Display
Help	This menu provides access to: ❍ online documentation ❍ register your PCPro software ❍ display the application version, the version and copyright date for the main software to which PCPro is connected	

Table 8-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference provides a list of the main menu items listed on the menu bar. Any associated sub-menus are listed in the Sub-menu Level 1, Sub-menu Level 2 and Sub-menu Level 3 columns. If a toolbar icon or shortcut key is available for the menu item, it is listed in the Toolbar Icon and Shortcut Key Sequence columns.

Table 8-2 Menu/Toolbar Hierarchy and Keyboard Shortcut Cross-Reference

Main Menu Item	Sub-menu Level 1 Item	Sub-menu Level 2 Item	Sub-menu Level 3 Item	Toolbar Icon	Shortcut Key Sequence
File	New	SV9100 North America	SV9100 R1.0		Ctrl + N
	Open…				Ctrl + O
	Save				Ctrl + S
	Save As…				
	Send				
	Properties				
	Log off				
	Exit				

Table 8-3 Toolbar Menus and Sub-Toolbar Menus

Home	**Communications**	**Programming**	**Multi Assign**		**Scripts**	**Accounts**	**Maintenance**
	Disconnect	Cards (Blades)	**Multi Assign**	Account Code	**Run Scripts**	PCPro Accounts	Create Software File
	Download	Time setting		Call Appearance Keys		PCPro Configuration	Upgrade Software
	Upload			DID			Feature Activation
	Interactive			Extension Number			Verify
				Function Key			SD Card Copy

View	**View**	**General**	**System Data**	
	System data	Tool Bar	**Tool tips**	Display (5-10-20-30)
	Standard	Status Bar		
		Navigation		

Report	**Reports**	**Import**	**Export**
	Class of service	DID table	DID tables
	Alarms	Speed dial	Speed dials
	Modification History		DESI Labels
	Non default values		
	Numbering plan		
	System Configuration		
	System data		
	Feature activation		
	VSlot		

Filter Options	**Unregistered Phones**	**Unregistered Trunks**	**Filters**
	IP Phone list	Unused trunk list	Extension
	Mobile Extension list		Trunks
	Unused phone list		

Tools	**System**
	System initialize
	Debug terminal
	DIM file download

Manufacturer Tools	**Ribbon**	**Scripts**
	Default	Dump DB
	Save to XML	
	Load external	

MultiAssign

Appendix A

SECTION 1 OVERVIEW

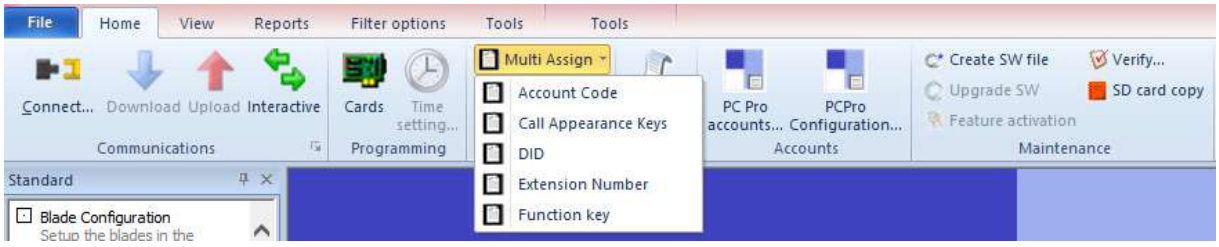
To shorten the time needed to program certain system data, PCPro provides a series of special purpose dialogs. These dialogs enable you to set multiple values with ease.

SECTION 2 ACCESSING MULTIASSIGN DIALOGS

To access the various dialogs available for the MultiAssign option, select **Home > MultiAssign** from the toolbar (refer to Figure A-1 Accessing the MultiAssign Dialogs on page A-1). Select the desired option for assigning:

- ❑ Account Codes
- ❑ Call Appearance Keys
- ❑ Direct Inward Dialing
- ❑ Extension Numbers
- ❑ Function Keys

Figure A-1 Accessing the MultiAssign Dialogs

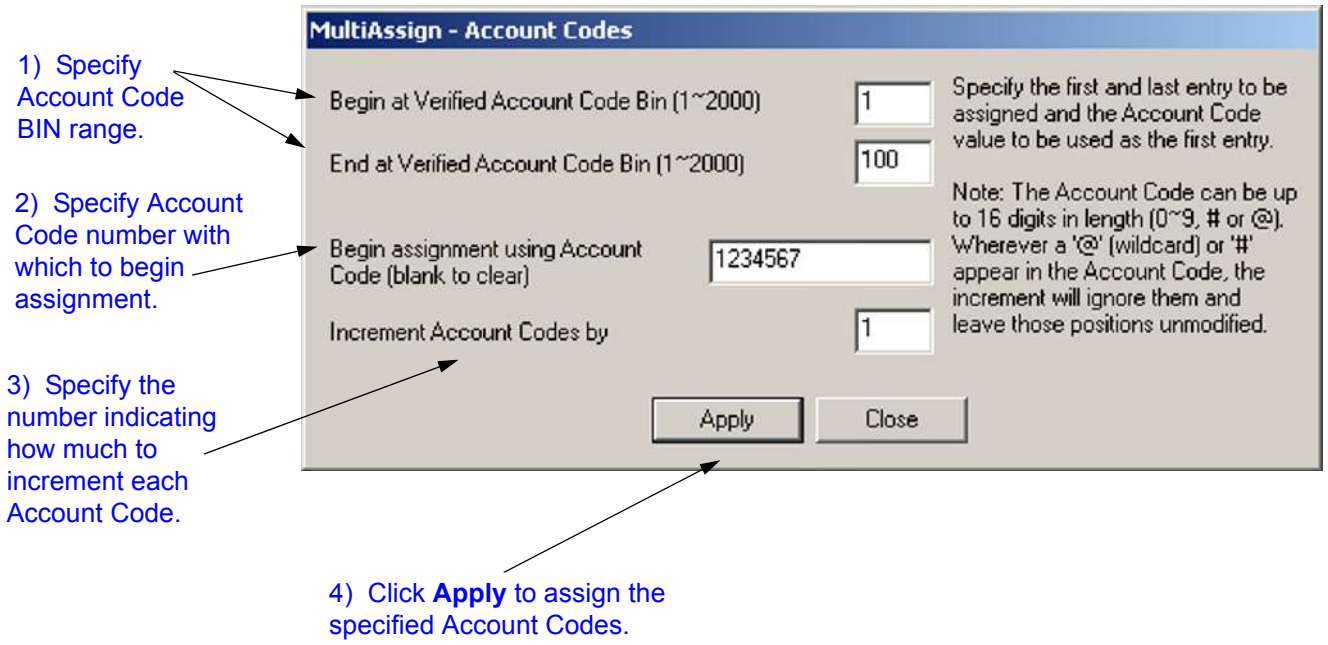


SECTION 3 ASSIGNING ACCOUNT CODES

The Account Codes multi-assignment dialog enables the user to set a range of account codes. This saves valuable time over having to enter each account code individually.

The Account Codes dialog box is accessed by selecting **Home > MultiAssign > Account Codes** from the toolbar.

Figure A-2 MultiAssign Account Codes



To assign a range of account code BINs with numbers:

1. Specify the begin/end BIN range over which to iterate.
2. Specify the account code number to being the assignment.
3. Specify by how much each account code is to be incremented. For example, a value of 2 means accounts codes will increment by 2 for each BIN (i.e. 0001, 0003, 0005…).
4. Click the **Apply** button to trigger the assignment.

Example

To assign BINs 001 ~ 010 with account codes 00001 ~ 00019 in increments of 2:

1. Place a 1 in the *Begin at Verified Account Code Bin* edit box.
2. Place a 10 in the *End at Verified Account Code Bin* edit box.
3. Place 00001 in the *Begin the assignment use the Account Code* edit box.
4. Place 2 in the *Increment Account Codes by* edit box.
5. Click **Apply**.

   The result will be…

   BIN 001 = 00001
   BIN 002 = 00003
   BIN 003 = 00005
   …
   BIN 010 = 00019

SECTION 4 ASSIGNING CALL APPEARANCE KEYS

The Call Appearance Keys multi-assignment dialog enables you to set up a group of function keys as CAP keys for multiple telephones. The dialog can be used to set up many telephones to have the *same* set of CAP keys or unique CAP keys across the telephone group.

The dialog is found under the menu item **Home > MultiAssign > Call Appearance Keys**.

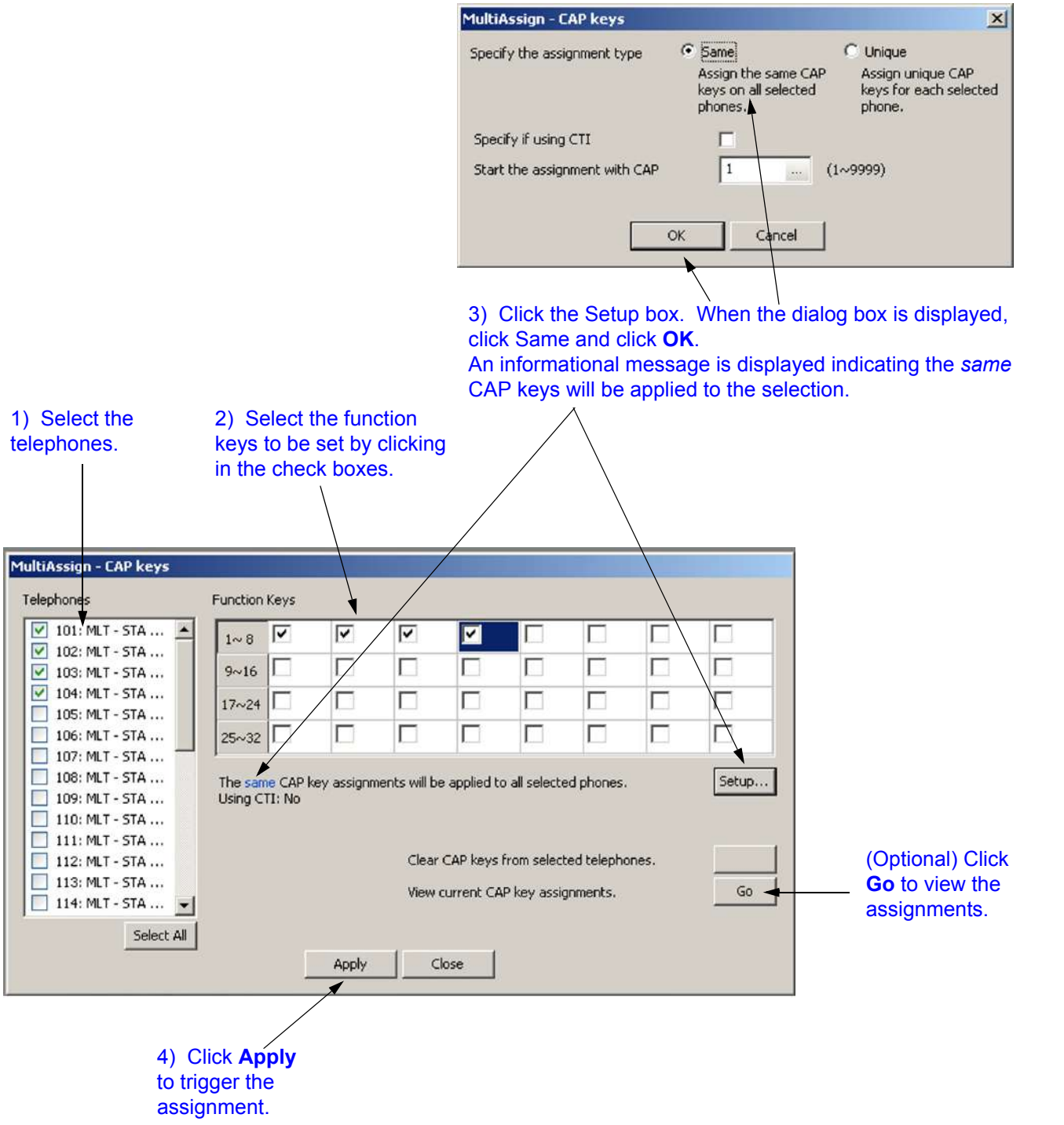
When using the Call Appearance Keys dialog, you should begin by deciding how the CAP keys should be setup. The choices are:

1. Same on all phones.
2. Unique CAP number to each key.

4.1 Assigning the Same CAP Keys on All Telephones

In this mode, the *same* CAP keys appear on all the selected telephones.

Figure A-3 MultiAssignment CAP Keys (Same)



To assign a group of telephones:

NOTE

If you want to view previous assignments, press the Go button.

1. Select the telephones from the **Telephones** list by clicking the check boxes.
2. Select the function keys that you want to assign to the selected telephones by clicking the **Function Key** checkboxes.
3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button and click **Specify if using CTI** checkbox if appropriate. Enter the starting CAP key number in the **Start the assignment with CAP** field.
4. Click **OK**. The main CAP key assignment dialog is returned with the assigned numbers displayed.

   If required, edit the actual value for each function key that is displayed in the Function key checkbox.
5. Click the **Apply** button to trigger the assignments.

Example

To setup extensions 101 ~105 to have function keys 1~8 set as CAP Keys 0010~0017 follow the steps below:

NOTE

This example assumes CAP numbers 0010 and onwards are not used and CAP number 0010 is the first free call appearance number.

1. Select extensions 101~105 from the telephone list.
2. Click function keys 1~8 (i.e., click all items in the first row of function keys).
3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button, click **Specify if using CTI** checkbox if appropriate, enter the starting CAP key number in the **Start the assignment with CAP** field.
4. You will see function keys 1~8 given the values 0010 ~ 0017.
5. Click the **Apply** button to trigger the assignments.

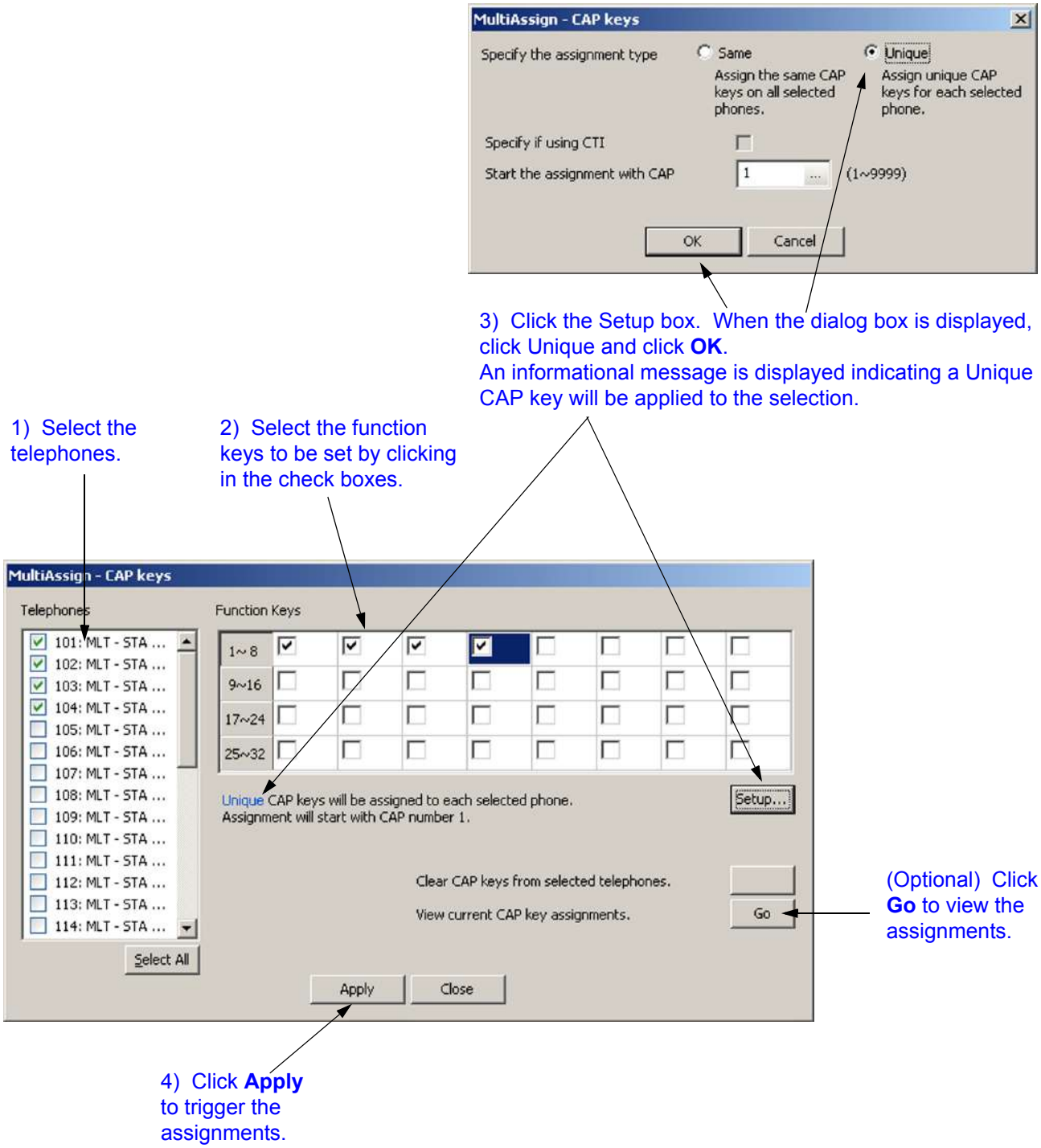
   The result is…

Ext 101	Ext 102		Ext 105
Key 1 = CAP 0010	Key 1 = CAP 0010		Key 1 = CAP 0010
Key 2 = CAP 0011	Key 2 = CAP 0011	…	Key 2 = CAP 0011
…	…		…
Key 8 = CAP 0017	Key 8 = CAP 0017		Key 8 = CAP 0017

4.2 Assigning Unique CAP Number to Each Key

In this mode, a *unique* CAP number is assigned to each selected function key across all the selected telephones.

Figure A-4 MultiAssignment CAP Keys (Same)



To assign a group of telephones:

NOTE

If you want to view previous assignments, press the Go button.

1. Select the telephones from the **Telephones** list by clicking the check boxes.
2. Select the function keys that you want to assign to the selected telephones by clicking the checkbox.
3. Click the **Setup** box to display the assignment type dialog box. Click the **Unique** button and click **Specify if using CTI** checkbox if appropriate. Enter the starting CAP key number in the **Start the assignment with CAP** field.
4. Click **OK**. The main CAP key assignment dialog is returned with the assigned numbers displayed.

   If required, edit the actual value for each function key that is displayed in the Function key checkbox.
5. Click the **Apply** button to trigger the assignments.

Example

To setup extensions 101~105 to have unique CAP keys across function keys 1~8 follow the steps below:

NOTE

This example assumes CAP numbers 0010 and onwards are not used and CAP number 0010 is the first free call appearance number.

1. Select extensions 101~105 from the telephone list.
2. Click function keys 1~8 (i.e. click all items in the first row of function keys).
3. Click the **Setup** box to display the assignment type dialog box. Click the **Same** button, click **Specify if using CTI** checkbox if appropriate, enter the starting CAP key number in the **Start the assignment with CAP** field.
4. Enter 0010 in the **Start with CAP number** edit box. Or alternatively click the "**…**" button and select CAP 0010 from the selection box.
5. Click the **Apply** button to trigger the assignments.
   The result is…

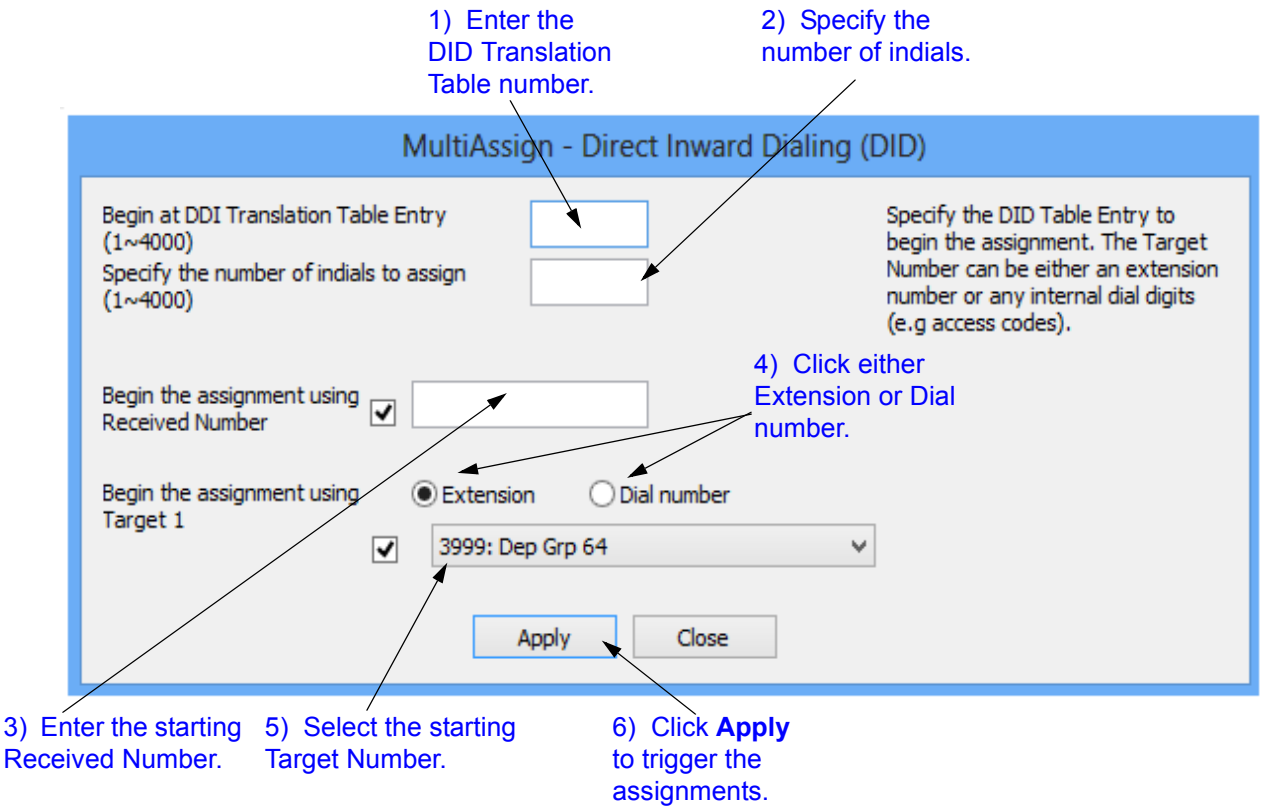
Ext 101	Ext 102		Ext 105
Key 1 = CAP 0010	Key 1 = CAP 0018		Key 1 = CAP 0026
Key 2 = CAP 0011	Key 2 = CAP 0019	…	Key 2 = CAP 0027
…	…		…
Key 8 = CAP 0017	Key 8 = CAP 0025		Key 8 = CAP 0033

SECTION 5 ASSIGNING DIRECT INWARD DIAL (DID) NUMBERS

DID allows you to assign multiple DID table entries.

The dialog is found under the menu item **Programming > MultiAssign > Direct Inward Dial (DID)**.

Figure A-5 MultiAssign Direct Inward Dialing (DID)



To assign DID entries:

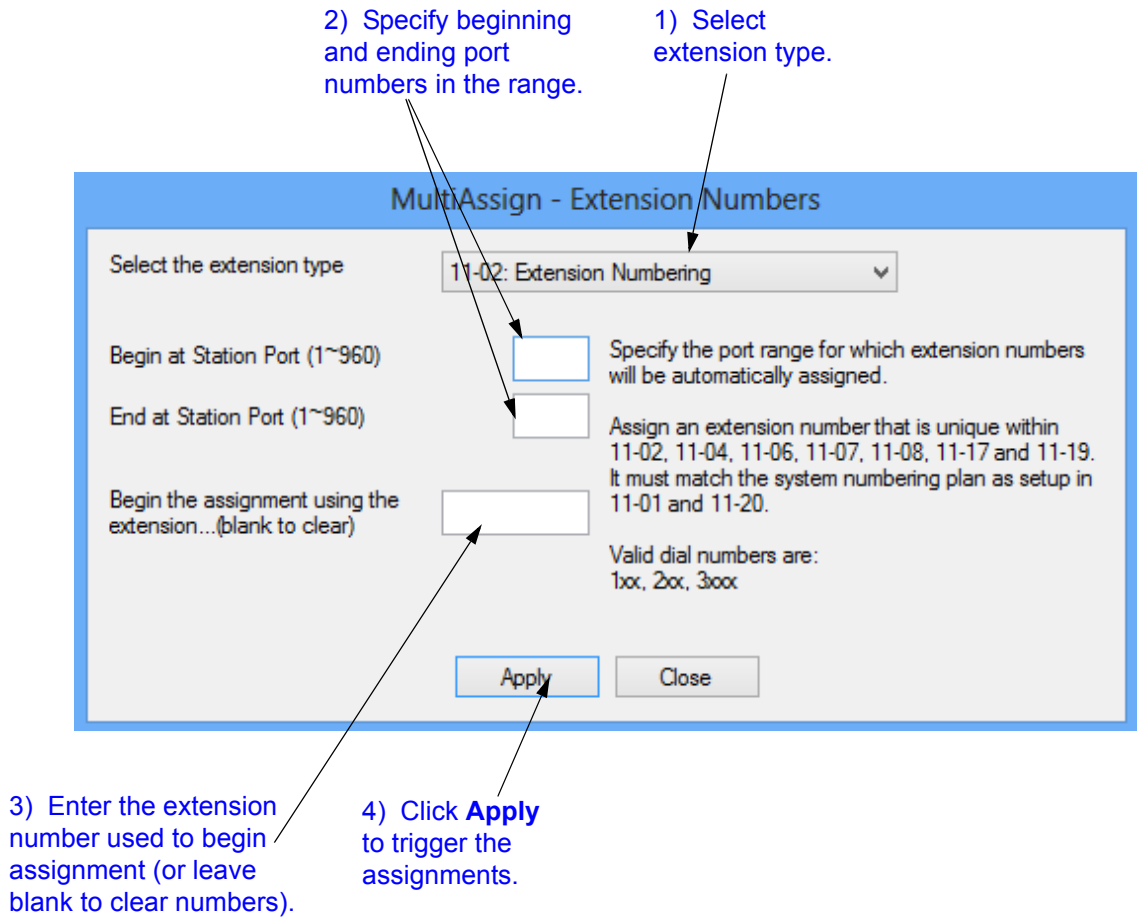
1. Enter the DID Translation Table Entry number to begin the assignment.
2. Specify the number of indials.
3. Enter the starting Received Number.
4. Specify either **Extension** or **Dial number** by clicking the associated button.
5. Use the pulldown menu to select the appropriate Target Number.
6. Click the **Apply** button to trigger the assignments.

SECTION 6 ASSIGNING EXTENSION NUMBERS

The Extension Number multi-assignment dialog enables you to set a range of extension numbers to ports. This saves valuable time over having to enter each extension number individually. In addition, the dialog allows you to set blank extensions, thus providing a convenient way of freeing extension numbers for use by other ports.

The dialog is found under the menu item **Home > MultiAssign > Extension Numbers**.

Figure A-6 MultiAssignment Extension Numbers



To assign a group of ports with extension numbers:

1. Select the type of extensions you want to apply.
2. Specify the port range over which to iterate.
3. Specify the extension number to begin the assignment. (Leave this field blank to clear the extension numbers).
4. Click the **Apply** button to trigger the assignment.

Example

To assign telephone ports 001~099 with extension numbers 301~399:

1. To assign station numbers select *11-01: Extension Numbering* as our extension type.
2. Place a 1 in the *Begin at Station Port* edit box.
3. Place a 99 in the *End at Station Port* edit box.
4. Place 301 in the *Begin the assignment use the extension* edit box.
5. Click **Apply**.

The result is…

Port 001 = Ext 301
Port 002 = 302
Port 003 = 303
…
Port 099 = 399


NOTE

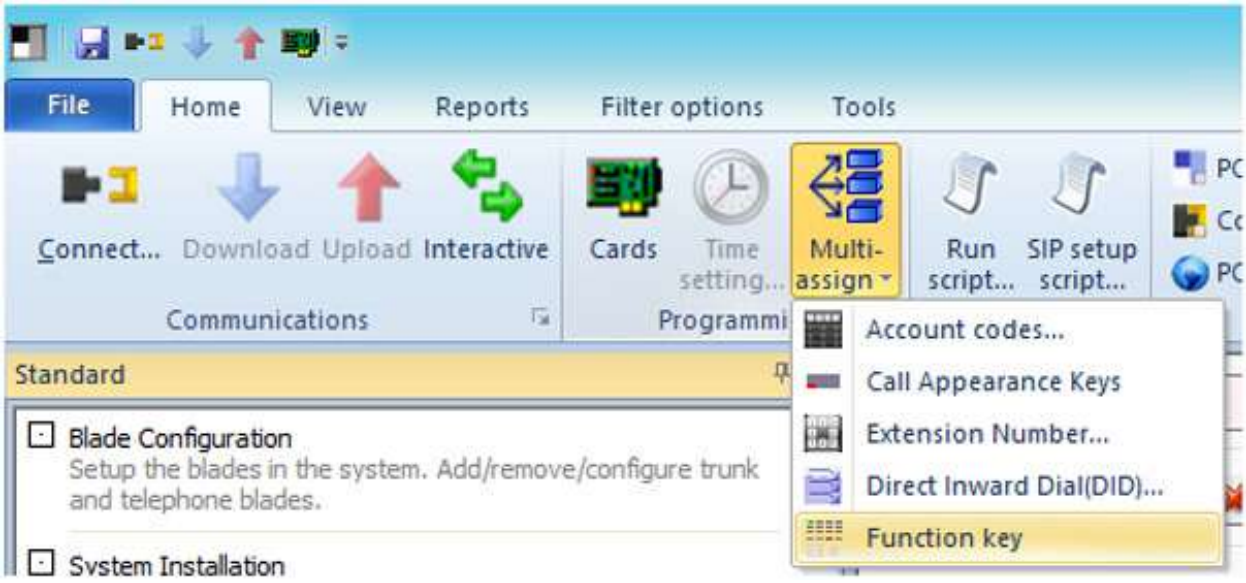
The extension numbers must validate against the numbering plan setup in PRG-11-01. In addition, duplicate extension numbers cannot exist. In this case, free the extension numbers by assigning a blank to the ports using those extension numbers.

SECTION 7 ASSIGNING FUNCTION KEYS

The Function Keys multi-assignment dialog enables you to setup a group of function keys for individual or multiple telephones. The dialog is best used if you need to set up many telephones to have the same set of function keys. The function layout can also be saved as a template to use when needed.

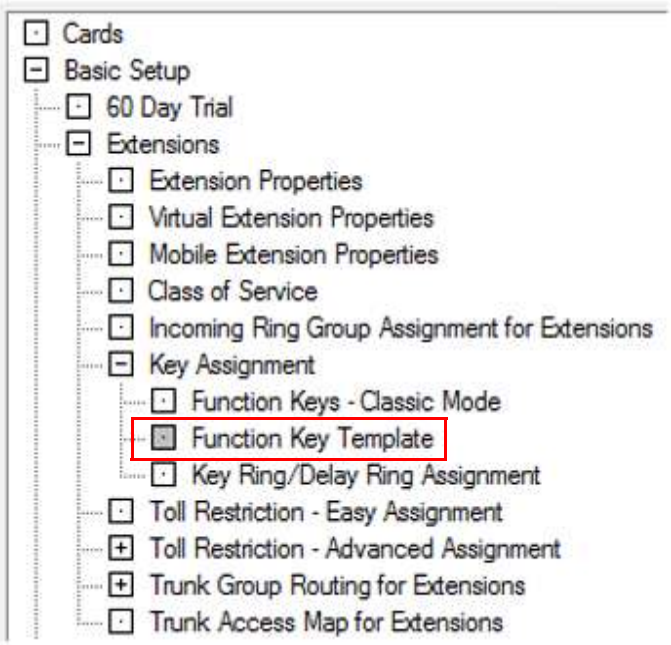
From the main menu choose Home / Multi-assign / Function key.

Figure A-7 MultiAssignment Function Keys



From **Easy Edit** choose Basic Setup / Extensions / Key Assignment / Function Key Template.

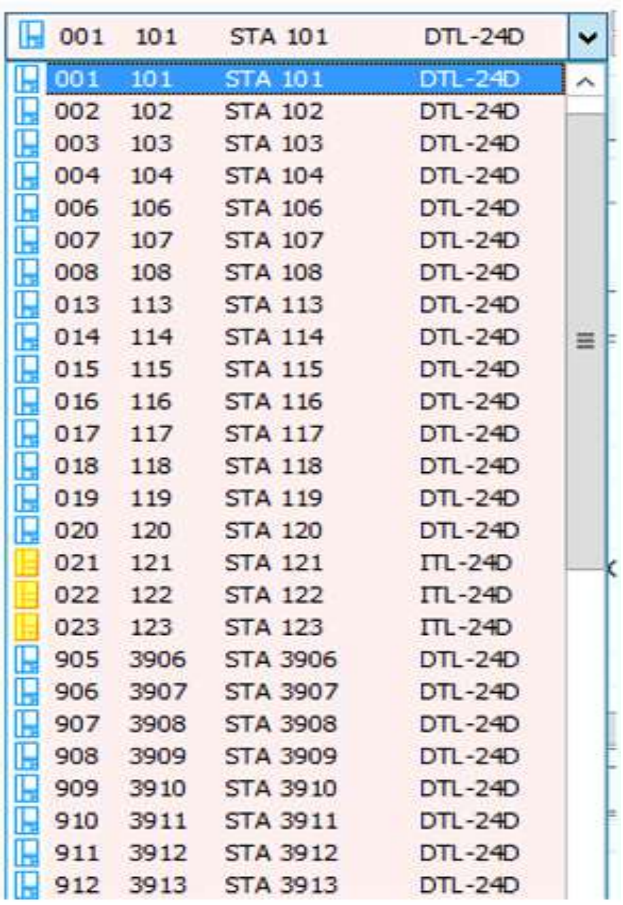
Figure A-8 Function Key Template Selection



Once on the Key Template page the pull down menu will show a list of extensions. When “Show all ports” is enabled every extension the system is capable of supporting is shown. If disabled, only extensions that are actually installed in the system are displayed. The default for this option is **enabled**.

When “Show all keys” is enabled, function keys 1~48 are shown. If disabled, only function keys 1~24 are shown. The default for this option is **enabled**.

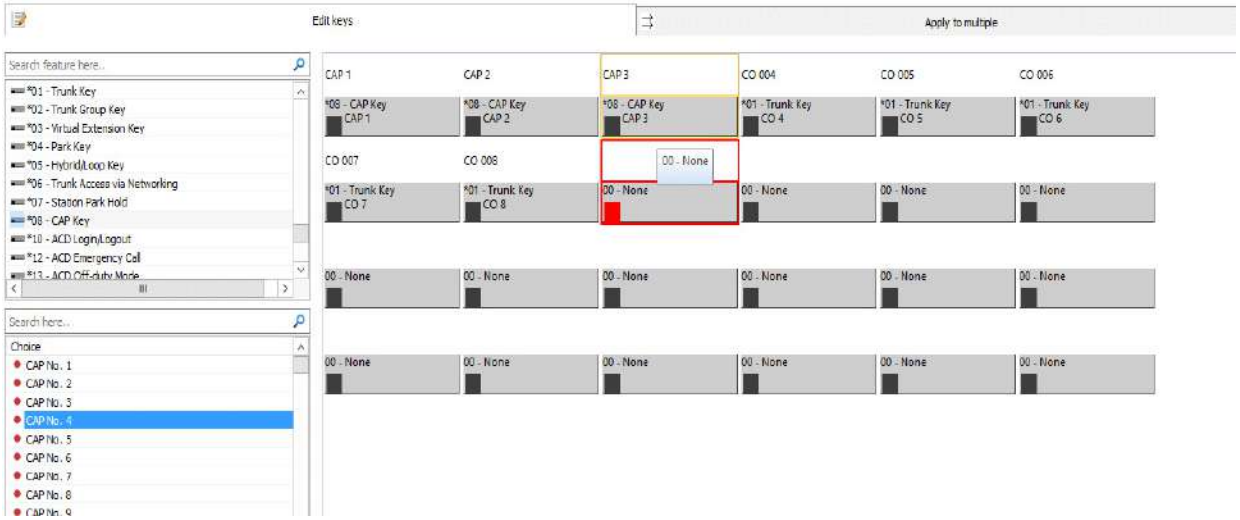
Figure A-9 List of Extensions



Once the extension has been selected, click on the **Edit Keys** tab and assign the Function Keys. To assign a key choose the feature to assign to a key, then click on the key to be assigned. In cases where additional options must first be selected, a menu will be displayed showing the option. The example below shows the options when assigning CAP keys.

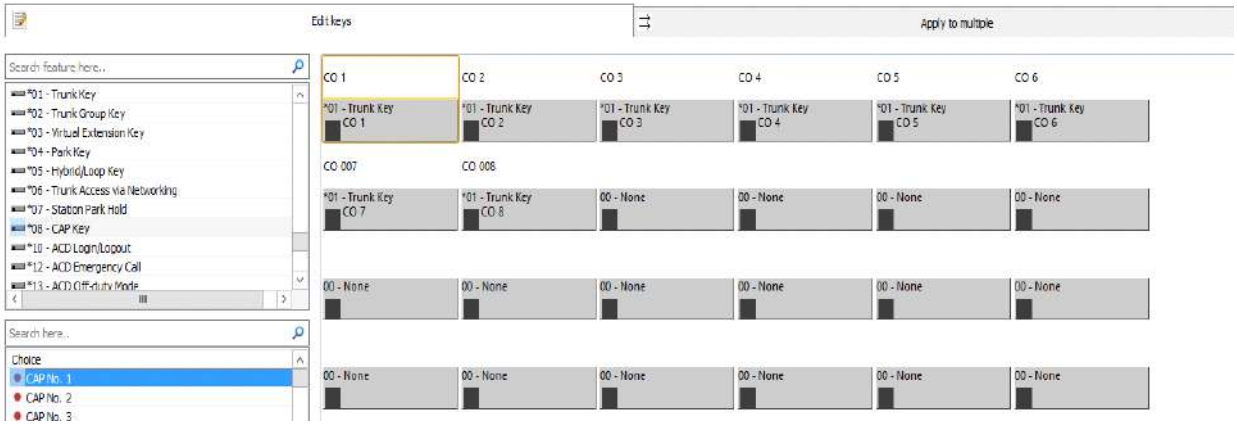
Here you see that CAP was selected from the function key options, in the Choice box CAP Key 3 was selected, then line key three was clicked on. At that point line key three is selected and the Choice box automatically advances to CAP Key 4. You can continue to click on subsequent function keys until the desired CAP keys have been assigned.

Figure A-10 Assigning CAP Keys



You can also choose to assign an entire row with CAP keys by right clicking on a function key and choosing “Fill a Row”. PC Pro will start on which ever line key you select and fill to the end of that row. For this example a default extension will have the top row assigned as CAP Keys 1~6 and the second row will be unassigned.

Figure A-11 Fill a Row Example

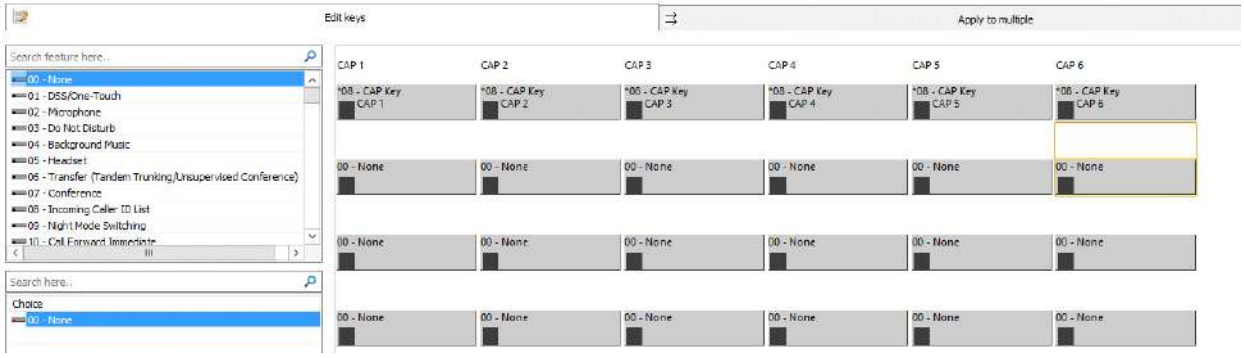


After selecting a CAP Key, and to start with CAP Key 1, the first line is right clicked. Then **Fill a Row** is selected.

Figure A-12 Fill a Row Example

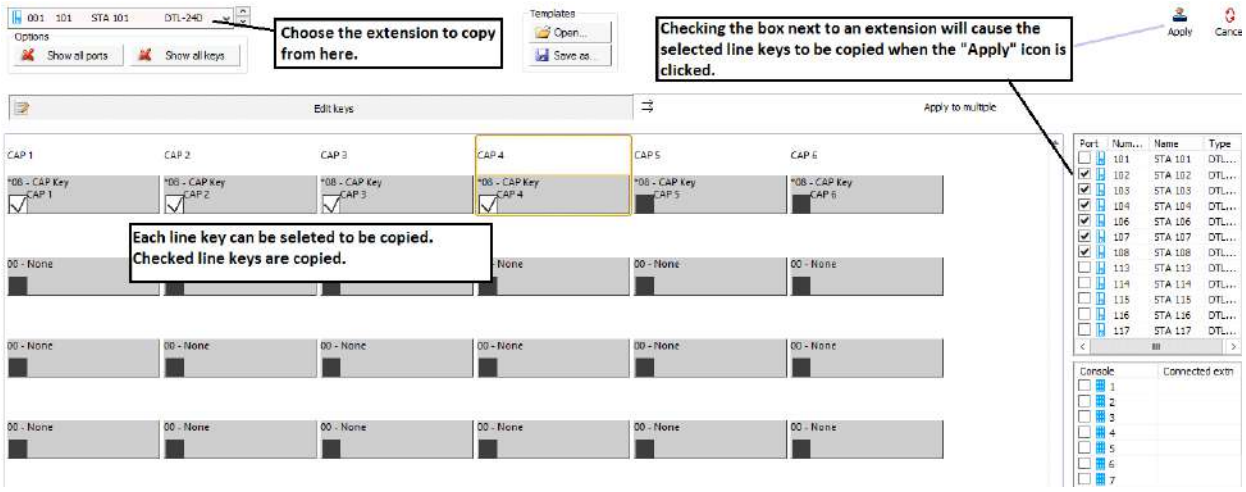
The first row has now been assigned. Next the “none” option was selected, line key 7 was right clicked on, and “Fill a Row” was chosen from the displayed options.

Figure A-13 Fill a Row Example



Using the **Apply Multiple Tab** you can copy the line key settings from the selected extension to other extensions. Note the CAP Key multi-assign function is not available here, only a straight copy of the line keys exactly as programmed. The CAP key multi-assign function is still available from the main menu.

Figure A-14 Apply Multiple



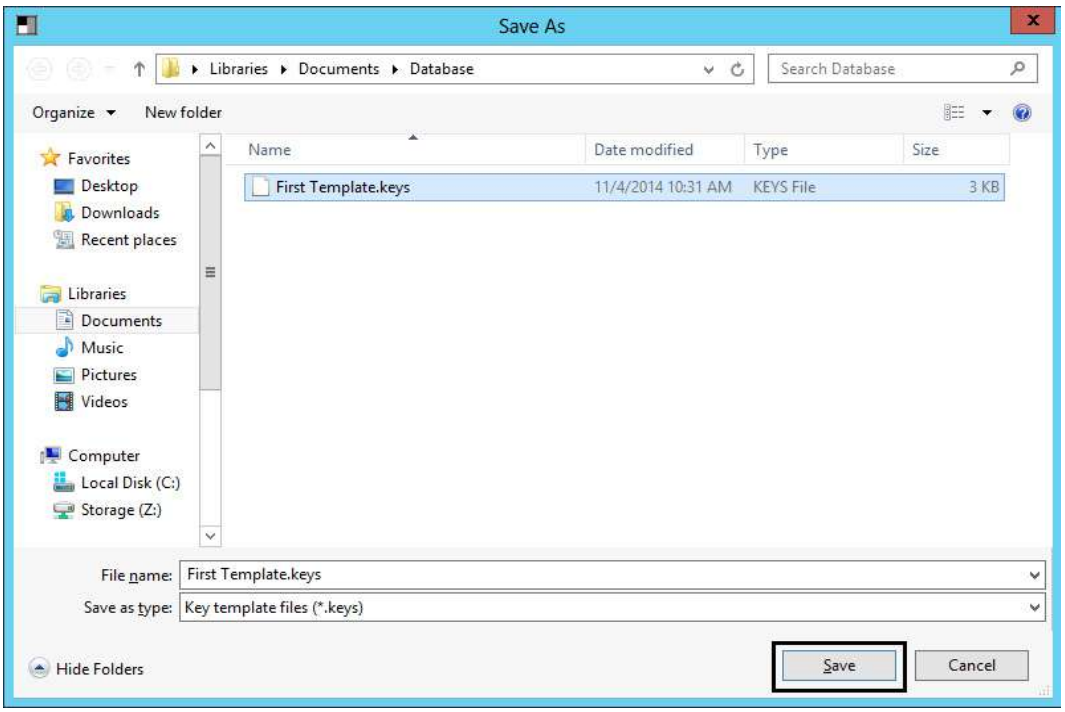
SECTION 8 SAVING A FUNCTION KEY TEMPLATE

PC Pro allows an extension's function key configuration to be saved as a template to be used later. To save a configuration as a template go to **Easy Edit** choose Basic Setup / Extensions / Key Assignment / Function Key Template. Once there, you can choose the extension to be used as the template from the pull down menu.

Figure A-15 Saving a Function Key Template

Next click on the "Save As" icon, browse to the location on the support PC to store the template file, name the file and click **Save**.

Figure A-16 Saving a Function Key Template



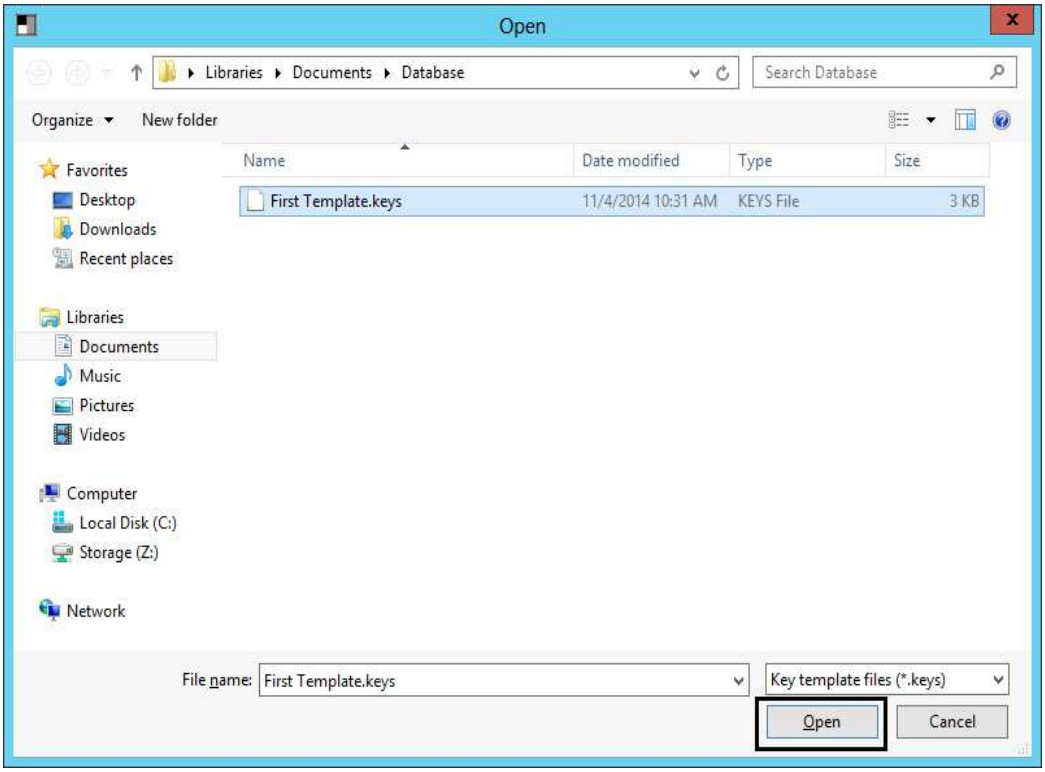
SECTION 9 OPENING A SAVED FUNCTION KEY TEMPLATE

PC Pro allows an extension's function key configuration to be saved as a template to be used later. To open a saved configuration template, go to **Easy Edit** choose Basic Setup / Extensions / Key Assignment / Function Key Template. Once there, click on the "Open" icon.

Figure A-17 Opening a Saved Function Key Template

Next browse to the location on the support PC where the template file is stored, select the file and click "Open".

Figure A-18 Opening a Saved Function Key Template



Communications

Appendix B

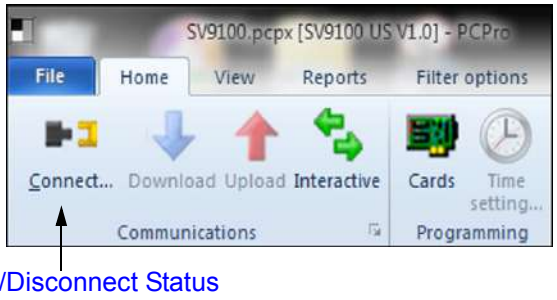
SECTION 1 OVERVIEW

PCPro provides methods for the application to communicate with the chassis. PCPro can connect to the chassis to allow you to download/upload data, to perform a system initialization, to update firmware, to activate features and to backup a database to or restore a database from a flash key.

SECTION 2 CONNECT/DISCONNECT

Connect/Disconnect makes or breaks a connection session between PCPro and a chassis. This option changes its functionality depending on the connection status of PCPro. Figure B-1 Connect/Disconnect Status shows how the connection status is indicated on the toolbar.

Figure B-1 Connect/Disconnect Status



	Disconnected	Signifies that PCPro is not connected to the chassis.
	Connected	Signifies that PCPro is currently connected to the chassis.

2.1 Accessing Connection Dialog

Connecting PCPro to a system is done within the Connect dialog. While PCPro is disconnected from a system, access the Connect dialog using one of the following three methods.

- Select the menu item **Home:Communications > Connect/Disconnect**.

  -- or --

- Select the icon depicting the disconnected black and yellow plugs .

  -- or --

- Press **F5**.

2.2 Connecting PCPro to the System

Use the Connect dialog box to specify connection parameters to connect to the system.

Figure B-2 Connect Dialog

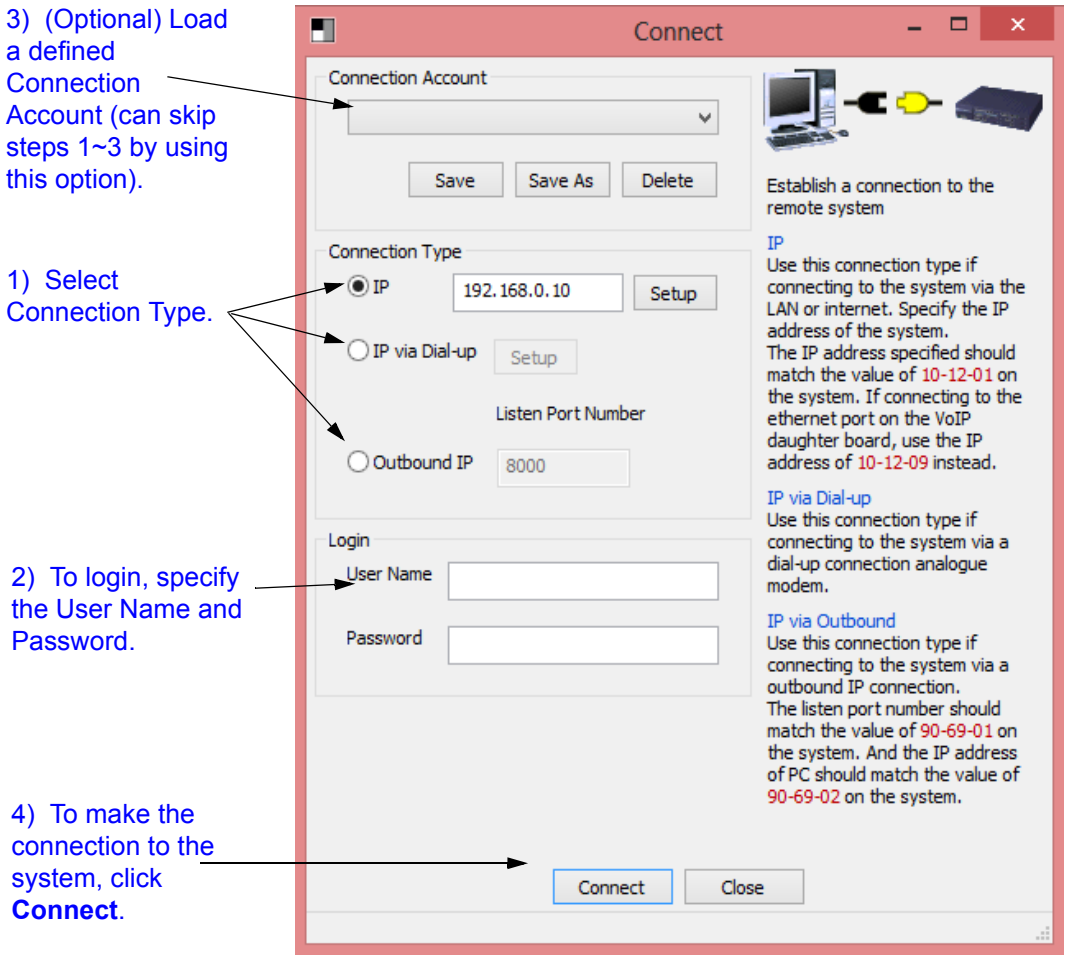
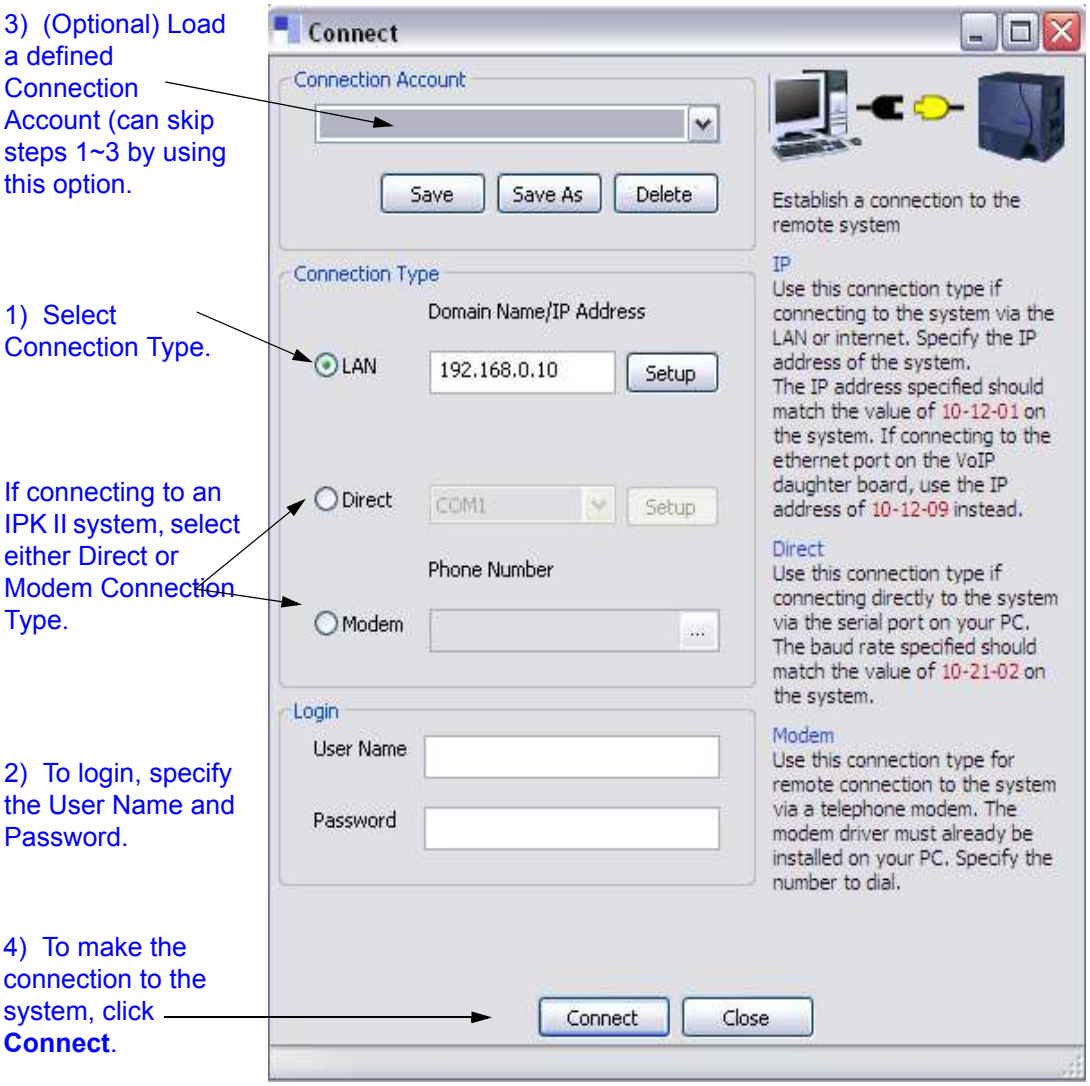


Figure B-3 IPKII Connect Dialog



To make a connection between PCPro and the system:

1. Select a **Connection Type** and specify the settings relevant to the selected type.

- *If connecting to an SV9100 system, select either IP or IP via Dial-up or Outbound IP.*
- *If connecting to an IPK II system, select either LAN, Direct or Modem.*

2. Specify the **User Name** and **Password** used to allow the connection.
3. Alternatively, steps 1~2 can be skipped loading a defined connection account (refer to - Connection Accounts).
4. Press the **Connect** button.

   After a successful connection, the connection settings that are used are set to the File Properties.

2.2.1 Connection Types

PCPro supports four types of connections to a system. Two connection types are for SV9100 and three apply only to IPK II.

Connection Types for SV9100:

- IP
  An *IP Connection* can be made via a LAN or the Internet. The IP address specified should match the system setting 10-12-01. If connecting to the ethernet port on the VoIP daughter board, use the IP address setting in 10-12-09.
- Dial-up
  An *IP Connection via Dial-up* can be made via a dial-up connection, either through ISDN or an analog modem.

To install dial up connection, refer to paragraph 2.2.2 Create SV9100 Dial Up Connection on page B-5.

- Outbound IP
  Use this connection type if connecting to the system via a outbound IP connection. The listen port number should match the value of 90-69-01 on the system. And the IP address of the PC should match the value of 90-62-02.

Connection Types for IPK II only:

- LAN
  An *IP Connection* can be made via the LAN. The IP address specified should match the system setting 10-12-01.

- Direct
  A *Direct Connection* can be made via an available serial port on a PC. Specify the PCs serial port and its transfer rate (bps). This speed must match the KSU baud rate setting assigned in 10-21-02.

- Modem
  A *Modem Connection* can be made from an existing modem connected to the PC. Specify the modem number to dial.

NOTE

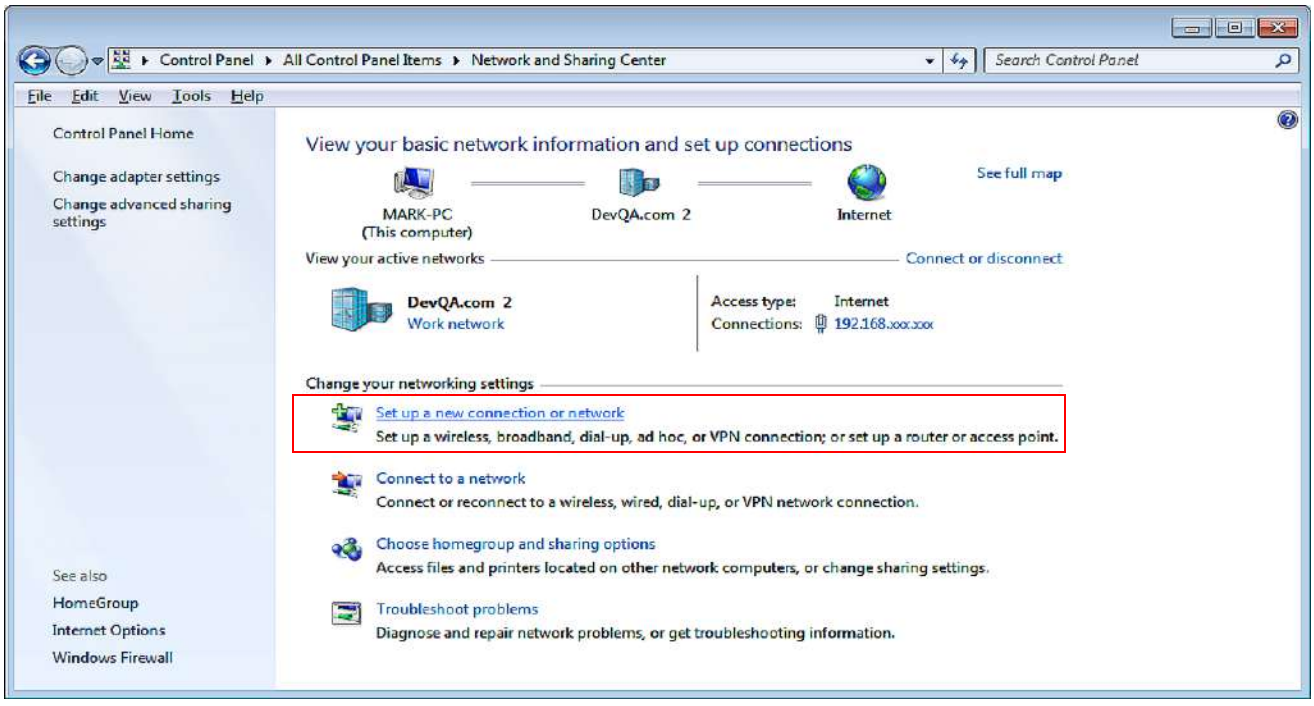
- ***To access the modem over K-CCIS, route the modem access service code to the target switch. Do not call a station that is call forwarded to the service code. When accessing the modem over K-CCIS, enter the service code to be dialed in PCPro.***
- ***Note that PCPro follows the PCs dialing properties. If dialing a service code, you must turn off the dial 9 for outside line and area code inclusion or PCPro will dial these digits as well.***

2.2.2 Create SV9100 Dial Up Connection

When connecting an SV9100 via modem, a Dial Up Connection (PPP) must be created. The following steps describe how to set up the Dial Up Connection (PPP).

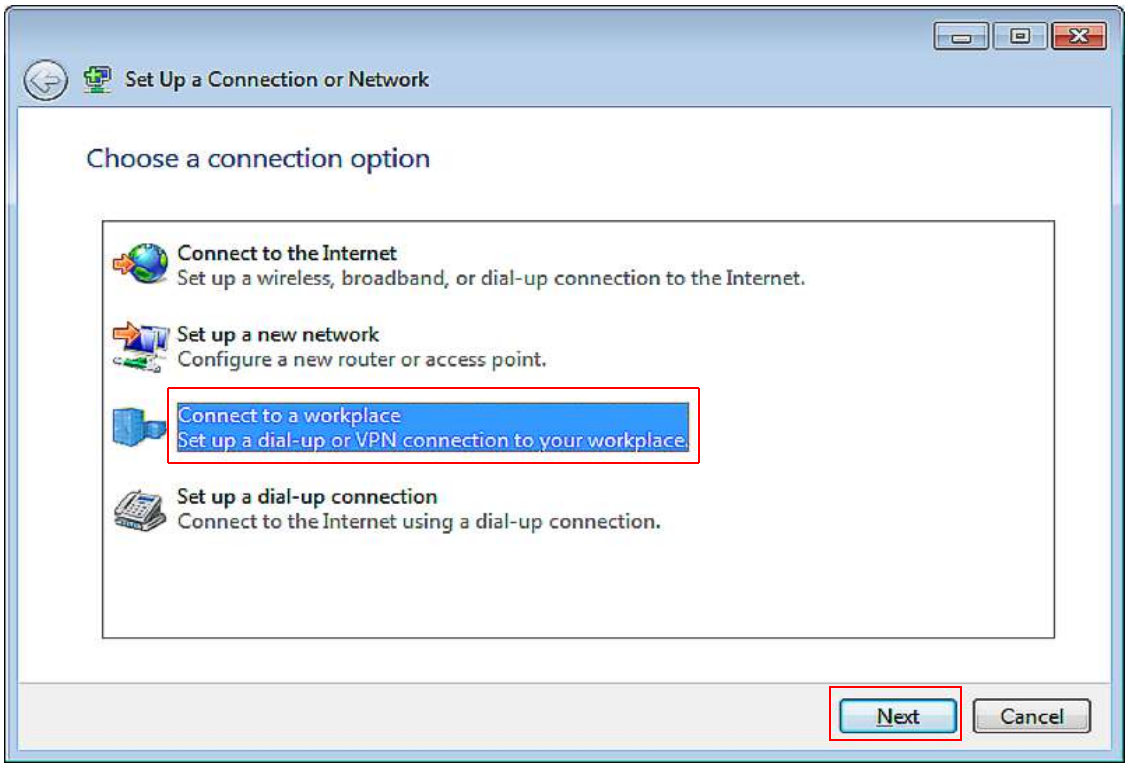
1. Click **Start >Settings>Network Connections**.
2. Select **Setup a New Connection or Network**.

Figure B-4 New Connection Wizard Dialog



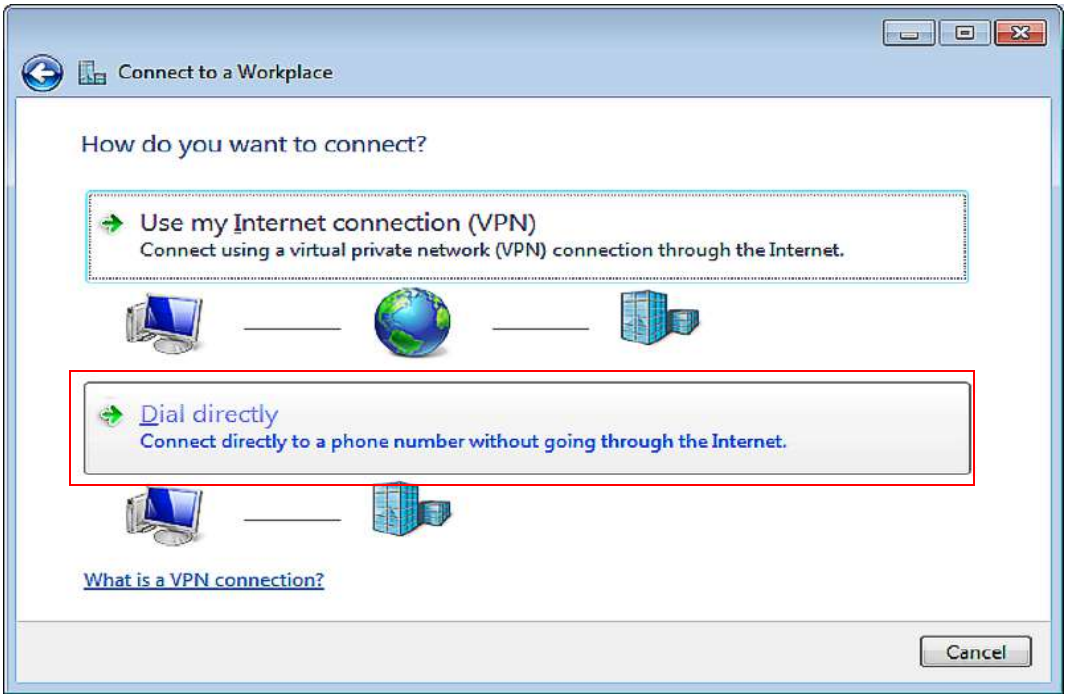
3. Click **Next**.
4. Select **Connect to a workplace**, then click **Next**.

Figure B-5 Network Connection Type Dialog



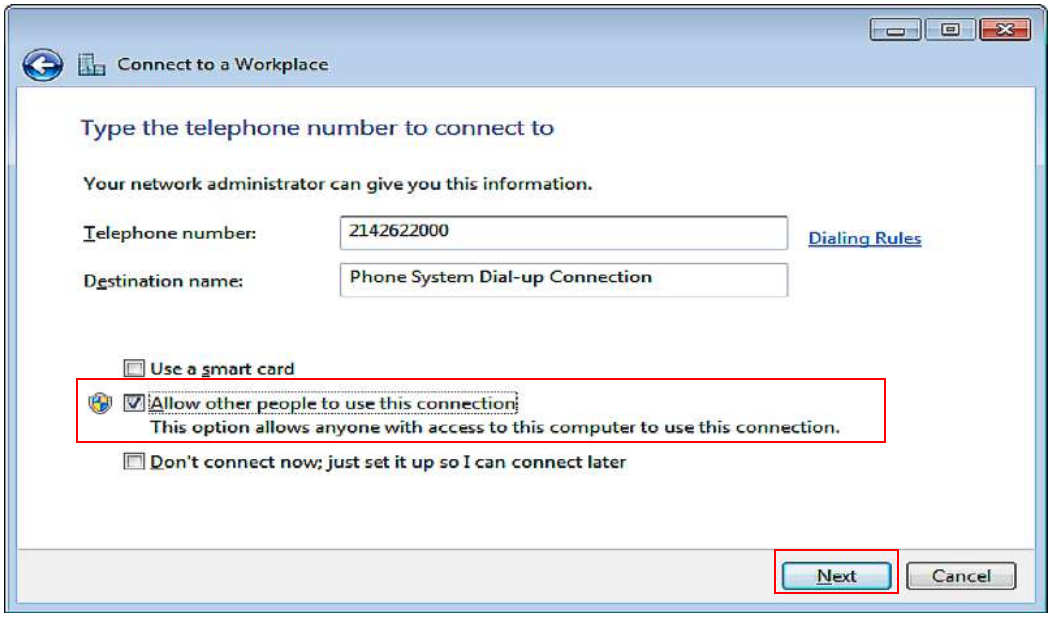
5. Select **Dial directly**.

Figure B-6 Network Connection Dialog



6. Enter the destination phone number, the name to be used for the dial-up connection and check the box next to "Allow other people to use this connection" then click **Next.**

Figure B-7 Connection Name Dialog

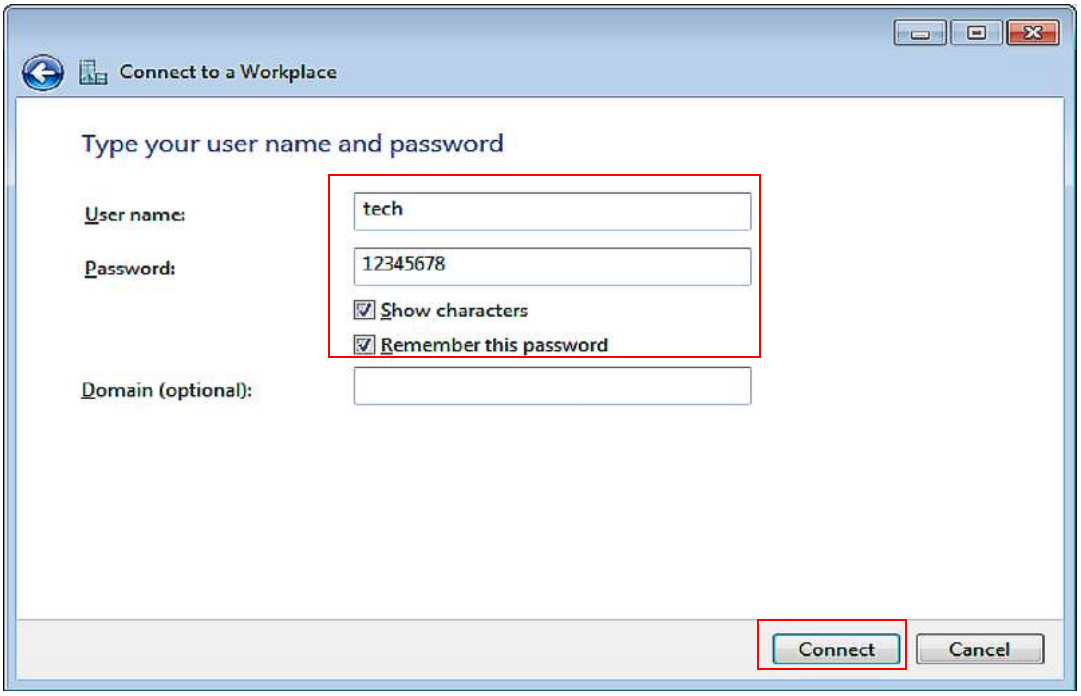


7. Enter the login name (tech) and the password to be used (12345678) and check the box next to "Remember this password", then click **Connect.**

IMPORTANT

Ensure the SV9100 programs 11-15-14, 22-02 and 22-07 are setup to receive calls to the modem.

Figure B-8 Phone Number to Dial Dialog

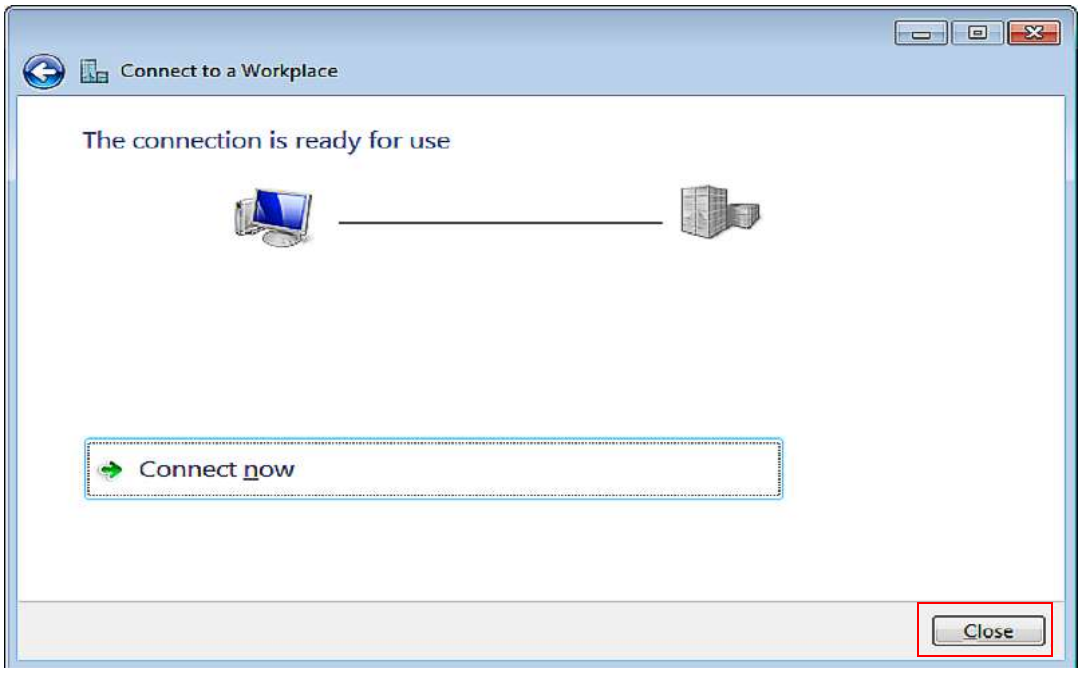


8. The PC will then try to dial the destination. Since this will be used later click **Skip** to stop the dial out.

Figure B-9 Connection Availability Dialog

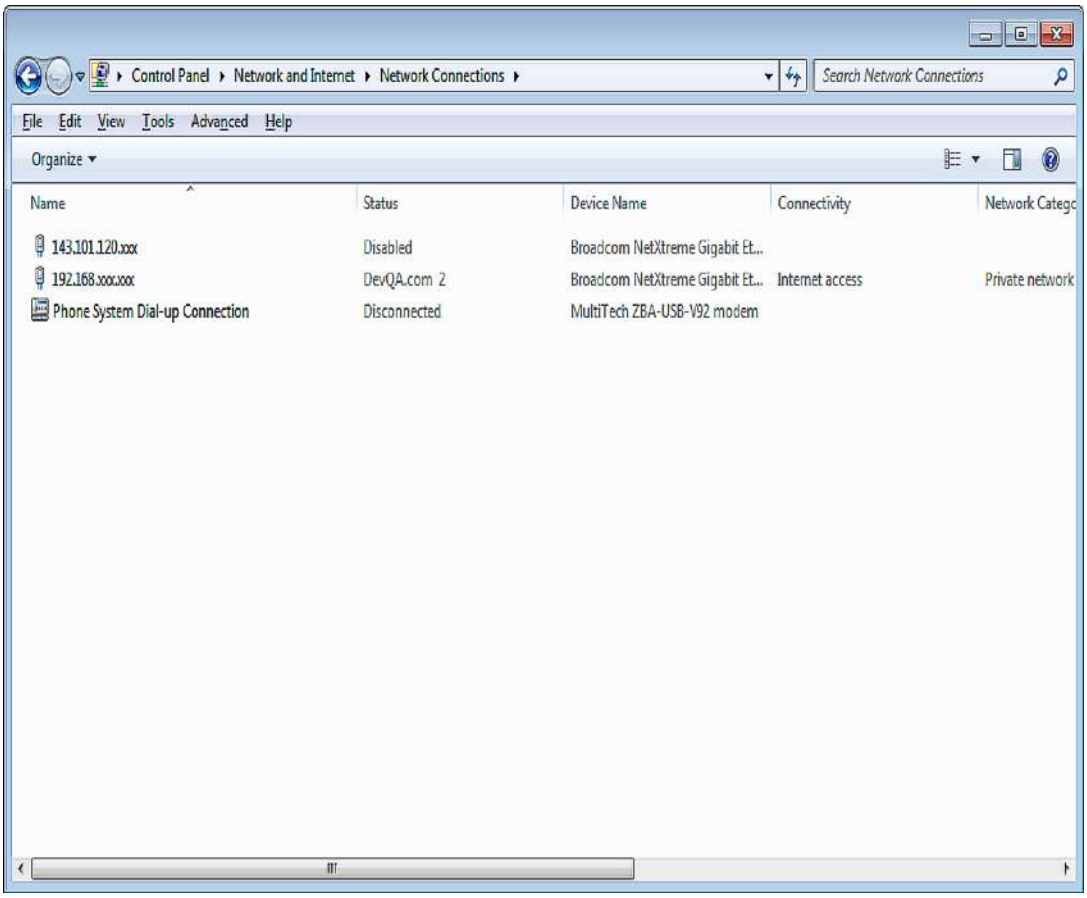
9. Click **Close**.

Figure B-10 Completing the New Connection Dialog



10. The Connection will now appear in the network connection screen and can be used by PC Programming when needed.

Figure B-11 Connect SV9100 Dial Up Connection



2.2.3 Login

Specify the User Name and Password that will allow the connection. The account must exist within the chassis settings 90-02. Like PCPro Accounts, Login Accounts govern what system data can be accessed from the chassis.

It is important to note, Login Accounts are not the same as PCPro Accounts. Thus both chassis Login and PCPro Account settings are NOT synchronized and are independent of each other.

Once connected, the PCPro access level changes to match the level assigned to the user name/password used to connect. This access level is set in 90-02 on the chassis. For example, if you start PCPro in Installer (IN) mode, but connect to a chassis using an account with an access level of System Administrator Level 1 (SA), after connecting PCPro assumes the access level of SA. Once you are disconnected, PCPro reverts back to the access level IN.

2.3 Disconnecting PCPro from the System

While PCPro is connected to a system, you can disconnect using one of the following methods:

1. Select the menu item **Home:Communication > Connect/Disconnect.**

   or…

2. Select the icon depicting the connected black and yellow plugs  .

   or…

3. Press **F5**.

All communication methods, excluding 'Connect/Disconnect', are disabled and the 'Connect/Disconnect' toolbar icon changes status to disconnected.

SECTION 3 DOWNLOAD

Downloading pulls all the data off the system and loads it into PCPro. A download can only occur when PCPro is connected to a system.

3.1 Accessing Download

When PCPro is connected to a system, access the Download dialog using one of the following methods.

- Select the menu item **Home:Communication > Download**.

  -- or --

- Select the icon depicting the blue arrow  .

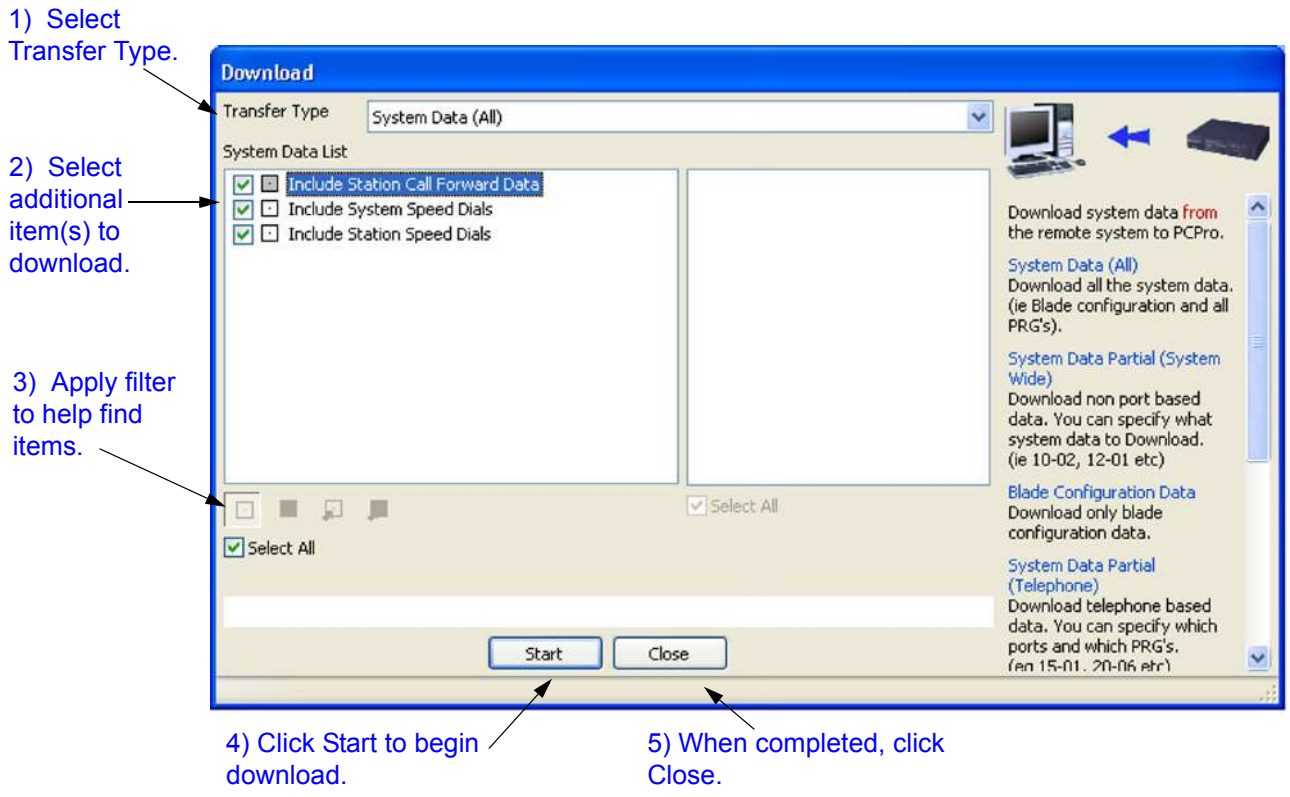
  -- or --

- Press **F6**.

3.2 Downloading Data from the System to PCPro

Use the Download dialog to specify the parameters and perform a download.

Figure B-12 Download Dialog



To download data from system memory to PCPro:

1. Select a **Transfer Type**.
2. Select **Transfer Type** items.
3. If desired, select items via the Modify Filter.
4. Press the **Start** button.
5. After the download is completed, press the **Close** button.

3.2.1 Transfer Type

Select a filter that controls the scope of settings to download. The following Transfer Types are made available.

- ❒ All: No filter, all chassis settings.
- ❒ Blade Configuration: Blade package settings.
- ❒ System Data Partial (System Wide): System-based settings.
- ❒ System Data Partial (Telephone): Telephone-based settings.
- ❒ System Data Partial (Virtual Extension): Virtual Extension-based settings.
- ❒ System Data Partial (Trunk): Trunk-based settings.

Transfer Type Items

Specifically select PRG Groups and/or individual PRGs from the chassis settings to download. The choice of Transfer Type Items available is governed by the Transfer Type selected.

Modify Filters

A filter is applied based on the system data modification status. The filter only applies to system data on the PCPro side, not system data residing in chassis memory. Refer to - Modification History for further information.

SECTION 4 UPLOAD

Uploading pushes all the data from PCPro to system memory. An upload can only occur when PCPro is connected to a system.

4.1 Accessing Upload

When PCPro is connected to a system, access the Upload dialog using one of the following methods:

- ❍ Select the menu item **Home:Communication > Upload**.

  -- or --

- ❍ Select the icon depicting the red arrow  .

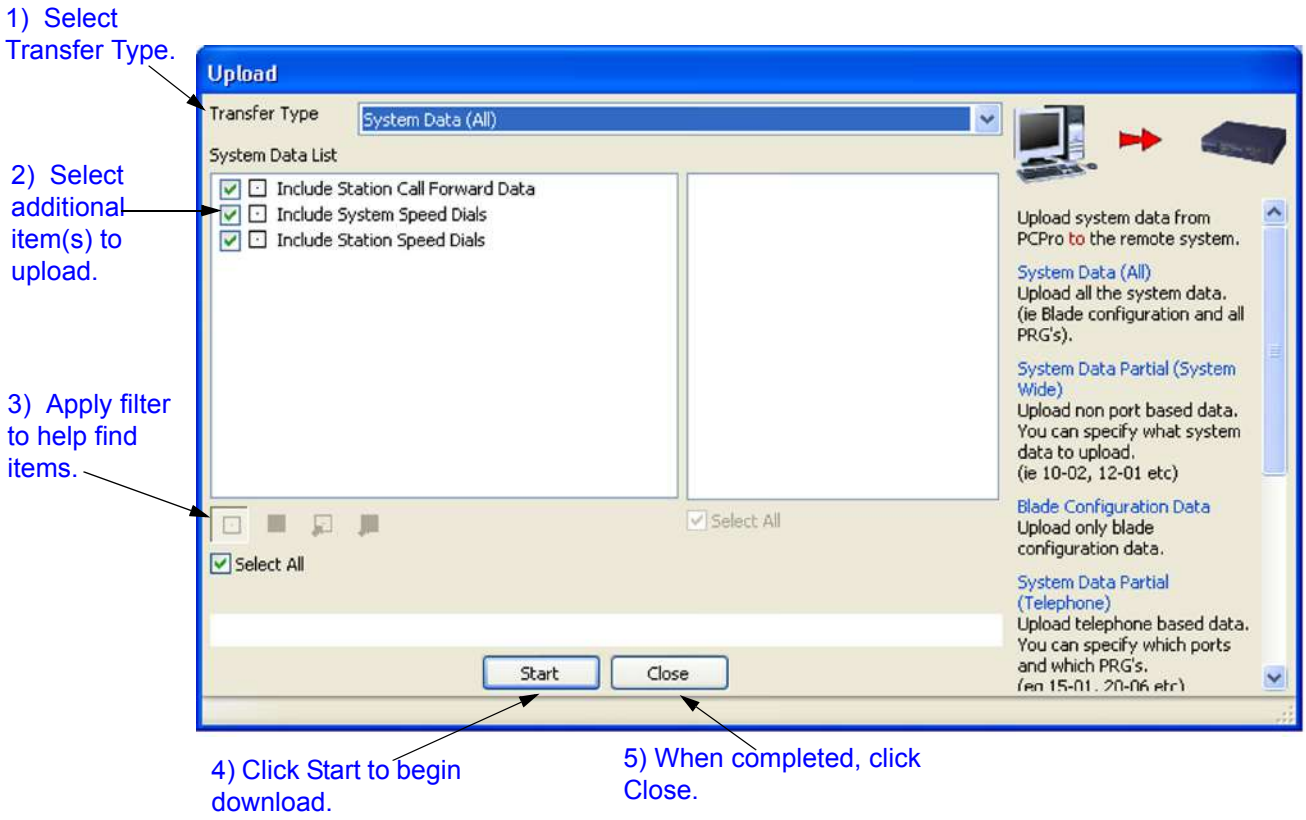
  -- or --

- ❍ Press **F7**.

4.2 Uploading Data from PCPro to System Memory

Use the Upload dialog to specify the parameters and perform an upload.

Figure B-13 Upload Dialog



To upload data from PCPro to system memory:

1. Select a **Transfer Type**.
2. Select **Transfer Type** items.
3. If desired, select items via the Modify Filter.
4. Press the **Start** button.
5. After the upload is completed, press the **Close** button.

4.2.1 Transfer Type

Select a filter that controls the scope of chassis settings to upload. The following Transfer Types are made available.

- ❒ All: No filter, all Chassis settings.
- ❒ Blade Configuration: Blade packages settings.
- ❒ System Data Partial (System Wide): System-based settings.
- ❒ System Data Partial (Telephone): Telephone-based settings.
- ❒ System Data Partial (Virtual Extension): Virtual Extension-based settings.
- ❒ System Data Partial (Trunk): Trunk-based settings.

Transfer Type Items

Specifically select PRG Groups and/or individual PRGs from the chassis settings to upload. The choice of Transfer Type Items available is governed by the Transfer Type selected.

Modify Filters

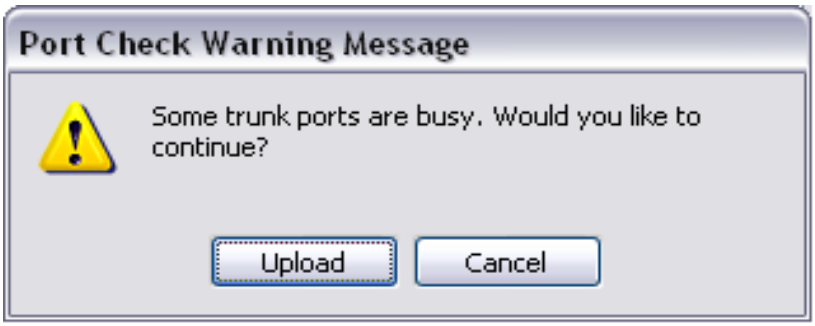
A filter is applied based on the system data modification status. The filter only applies to system data on the PCPro side, not system data residing in chassis memory. Refer to - Modification History for further information.

4.3 Uploading Blade Configuration

When uploading the Blade Configuration via **Upload All,** and selecting Card Configuration, or just **Uploading Card Configuration**, a warning popup will display when either Trunks or stations are busy at the time of selecting to uploading the Card Configuration. This will allow for the upload to be canceled and completed at a later time, or to be continued and will disconnect the busy trunks and/or stations.

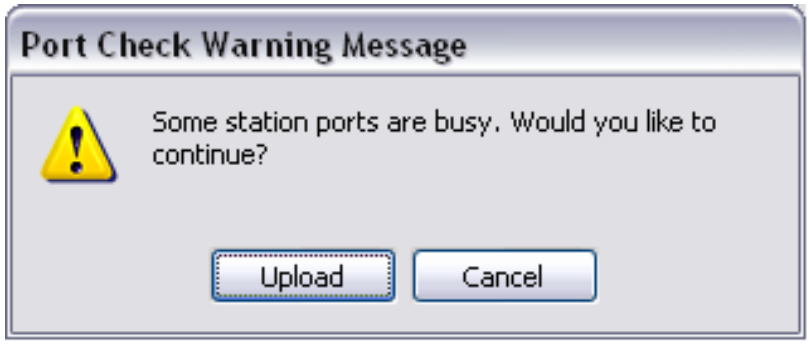
This popup is shown when the Card Configuration is selected to be uploaded and the trunks are busy.

Figure B-14 Trunk Ports Busy Warning



This is popup is shown when the Card Configuration is selected to be uploaded and stations are busy.

Figure B-15 Station Ports Busy Warning



SECTION 5 FEATURE ACTIVATION

Some system features are licensed and require registration before they can be used. Features can be activated by registering the feature automatically via the Internet or manually by downloading the associated Software Code. Feature Activation can only occur when PCPro is connected to a system.

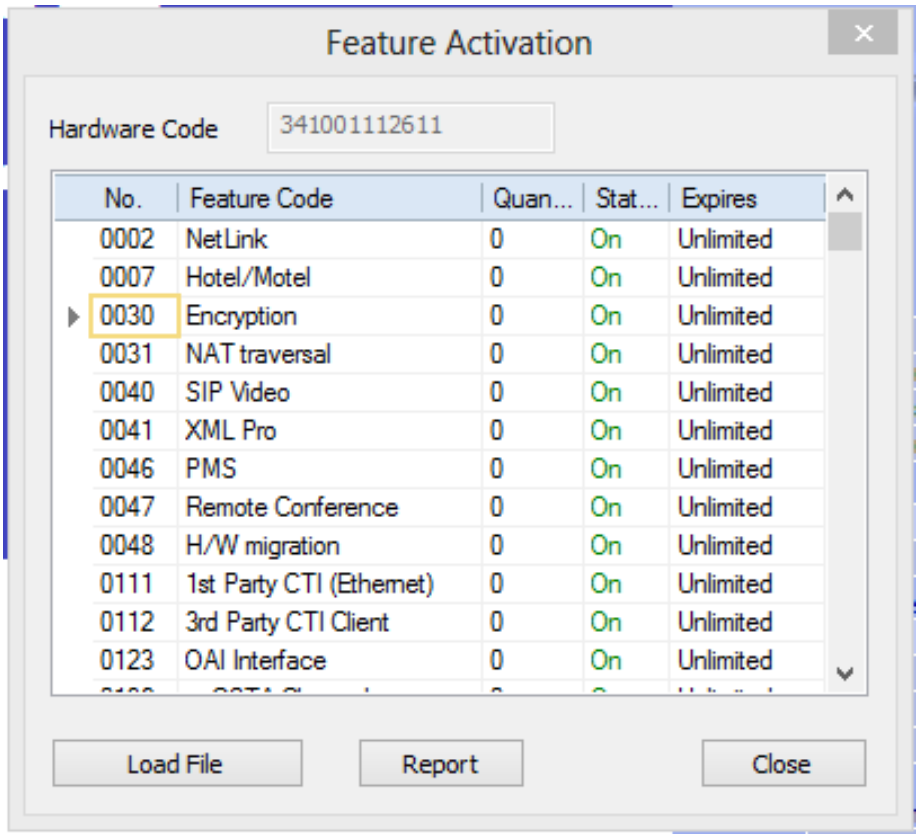
5.1 Accessing Feature Activation

When PCPro is connected to a chassis, access the Feature Activation dialog by selecting the menu item **Home > Maintenance > Feature Activation**.

5.2 Activating a Feature

Refer to - Feature Activation for a detailed discussion.

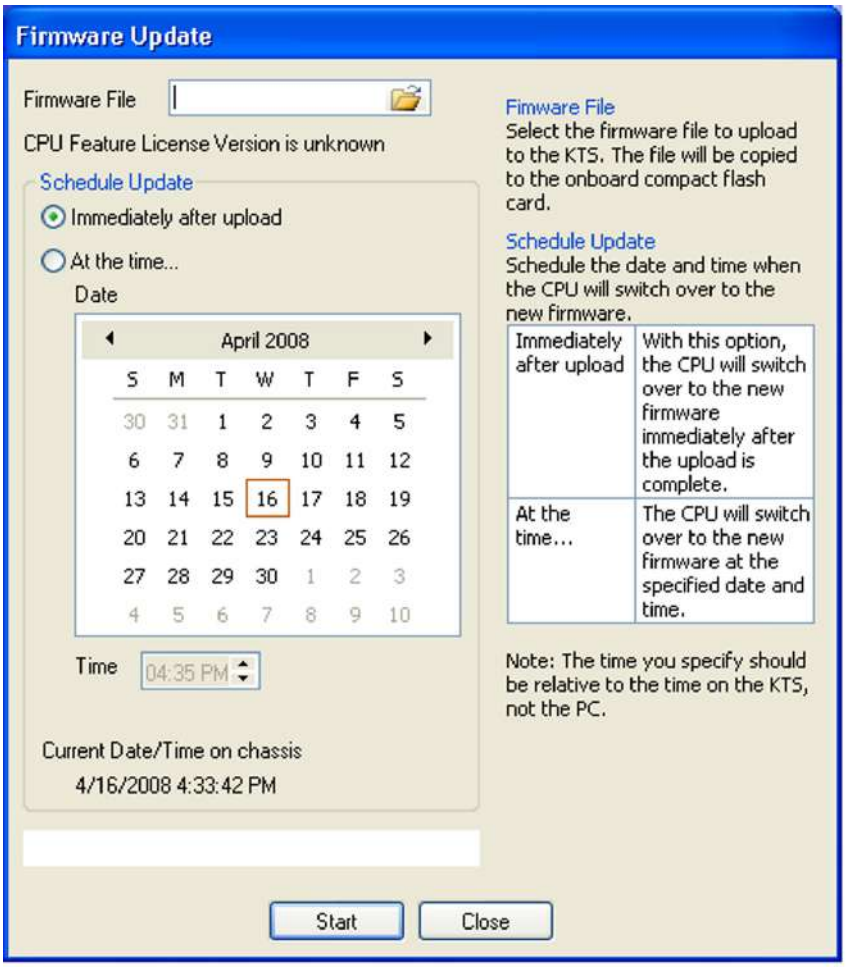
Figure B-16 Feature Activation Dialog



SECTION 6 FIRMWARE UPDATE

Firmware Update automatically updates the main software in a system remotely at a scheduled time. This feature saves times and effort in comparison to performing the task manually. A Firmware Update can only occur when PCPro is connected to a chassis.

Figure B-17 Firmware Update Dialog



The time to upload the firmware package file is directly related to the file size. At present, the package file is about 21MB, so over LAN it may take several minutes.

A backup of system data should be performed before any firmware update.

Before Firmware Update can be used the system must meet the following requirements:

1. Feature Activation
   The Firmware Update feature must be registered through Feature Activation. Refer to Section 5 Feature Activation on page B-16 for details.
2. Hardware
   The hardware prerequisite for Firmware Update is the USB drive. The USB drive is used to store the Firmware Update file before the operation is executed.

6.1 Accessing Firmware Update

When PCPro is connected to a chassis, access the Firmware Update dialog by selecting the menu item **Home > Maintenance > Upgrade SW**.

6.2 Using Firmware Update

Use the Firmware dialog to specify the parameters and perform a Firmware Update.

To perform a firmware update:

1. Select a **Firmware File**.

   Firmware Package File:
   Select a Firmware package file provided by NEC. Updating a chassis with a faulty Firmware page file could render the system unusable.

2. Schedule when the Firmware Update is to occur using the parameters in the **Schedule Update** section.

   Schedule:
   Schedule when the Firmware update will occur. The changes of the Firmware Update will only occur after the chassis is reset. Thus the Firmware Update should be executed at a suitable time when the chassis is not actively in use.

   
   NOTE

   The time you specify should be relative to the time on the chassis, not the local time of the PC.

3. Press the **Start** button.

6.3 Firmware Update via Web Pro

WebPro supports Remote System Upgrade. Available features or procedures are the same as PCPro Remote Upgrade.

Figure B-18 Firmware Update Icon

1. Click the 'Firmware Update' icon and the following pop up screen is displayed.

Figure B-19 Firmware Update Screen

2. In the Firmware Update screen, select a location of the Firmware Package file. For example, the file name might be: SV9100_v1.0RemoteUpgrade.mdu
3. Select the schedule type:
   - Immediately after upload

- At the time...
- If you choose ‘At the time...’ select the date and time you want the GCD-CP10 to reset and switch over to the new software version.

4. Click the ‘Start Update’ button. WebPro uploads the firmware package file, and updates the system at the time you specified in step 3.

SECTION 7 CONDITIONS

WebPro supports Remote System Upgrade. WebPro upgrade requires”

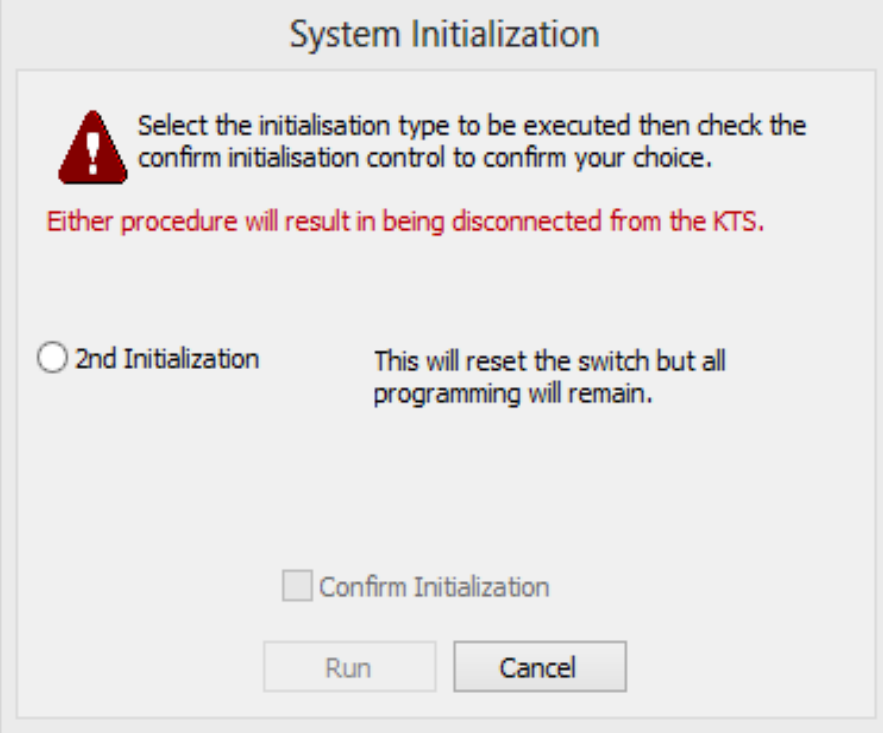
- Firmware package file from NEC
- User level (PRG90-02-03) has to be 2 = IN (Installer Level) or higher.

DO NOT click the Home or Back buttons on the browser, or close the WebPro browser, during uploading the Firmware, otherwise Upload stops.

SECTION 8 SYSTEM INITIALIZATION

A System Initialization resets a system. During an initialization all telephone calls are dropped and all connections to WebPro, PCPro and the handset are lost. Therefore, it is important that initialization should be executed at a suitable time when the system is not actively in use. PCPro can only execute an initialization when it is connected to a system.

Figure B-20 2nd Initialization Selected



When PCPro is connected to a system, access the System Initialization dialog by selecting the menu item **Tools > System Initialization.**

8.1 System Initialization Type

Within the System Initialization Dialog, access the initialization process.

2nd Initialization
A 2nd Initialization resets the chassis and retains all previously modified values within system data.

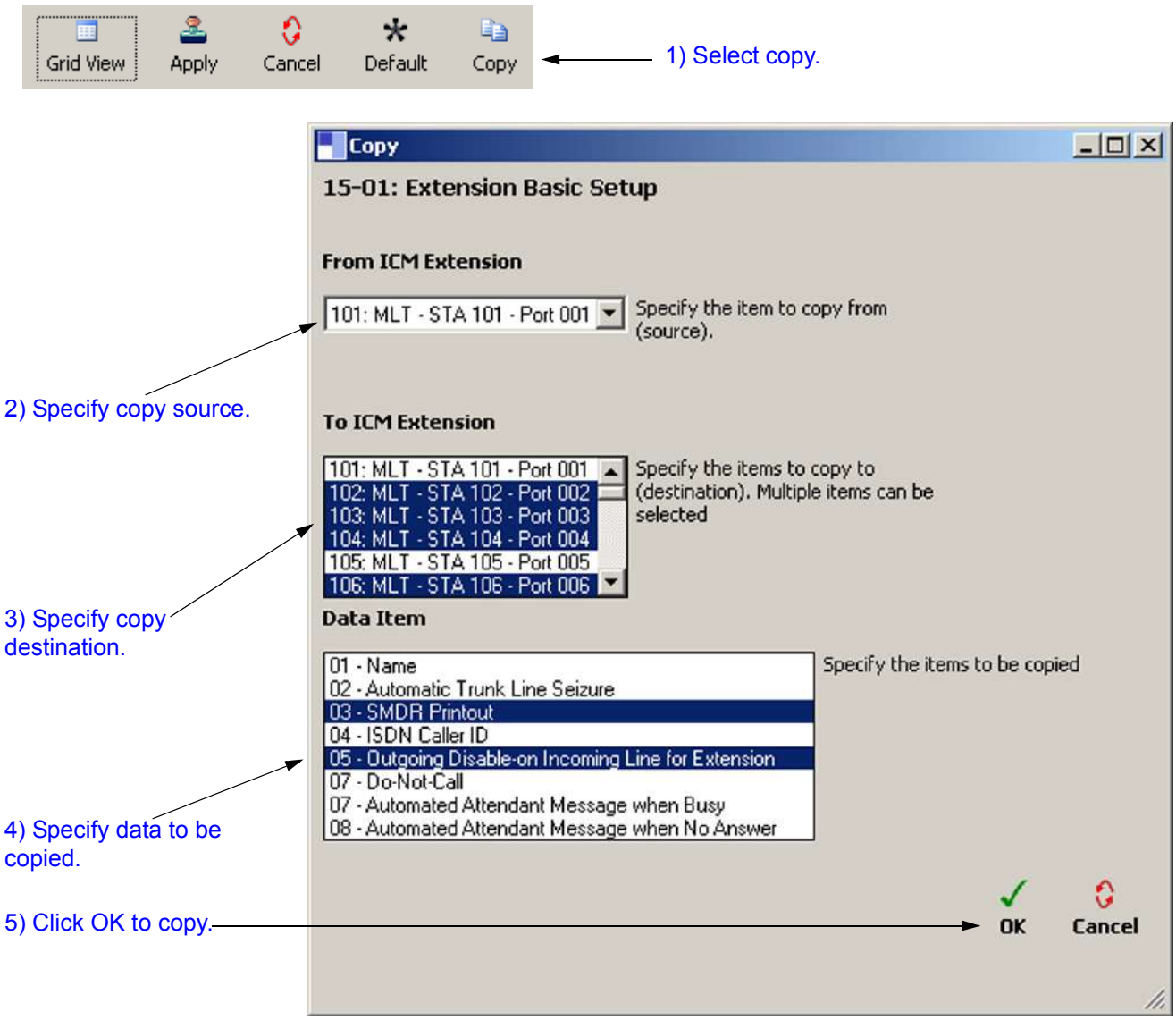
Copy

Appendix C

SECTION 1 OVERVIEW

The system data copy function allows you to copy data from one item to another (e.g., one trunk to another). This copy only applies to a single program. Copy only appears on screens where it is applicable.

Figure C-1 System Data Copy



SECTION 2 COPYING SYSTEM DATA

To copy a system data item:

1. Press the **Copy** button  .
2. When the **Copy** dialog box is displayed, specify the source to copy from.

   The source (**From**) shows the item being copied from. Only a single source item can be selected.
3. Specify elements of the source that you want to copy.

   These settings are specific to the system data being copied.
4. Specify the destination where you want to the elements copied.

   The destination (**To**) details the item(s) where the selected source information is copied to. Multiple destination items can be selected.
5. Press **OK** to copy the selected items.

Modification History

Appendix D

SECTION 1 OVERVIEW

PCPro keeps a record of all the modifications made to a database file. This record is known as the Modification History. PCPro also provides you with the ability to view this history list. Following is the list of database operations that PCPro records in the modification history.

<table>
<tr><th>Operation</th><th>Details</th></tr>
<tr><td>System Data Set</td><td>This includes programming performed through:
❍ Standard View Screens
❍ System Data Programming
❍ Copy
For each set, an entry is made to the history list. The entry records the following items:
<table>
<tr><th>Field</th><th>Data</th></tr>
<tr><td>Date</td><td>Date and time of operation.</td></tr>
<tr><td>User Name</td><td>The User Name that performed the operation.</td></tr>
<tr><td>Display Name</td><td>The Display Name that performed the operation.</td></tr>
<tr><td>Access Level</td><td>The Access Level that performed the operation.</td></tr>
<tr><td>Type</td><td>Identifies the operation type. Set to “Set Date”.</td></tr>
<tr><td>Modification</td><td>The system data ID.</td></tr>
<tr><td>Details</td><td>The item changed.
Old value.
New value.</td></tr>
</table></td></tr>
</table>

The modification history is only saved in the local database when you perform **File Save** or **File Save As**. The modification history is a running list of the changes. PCPro keeps appending to the list. If you open a file, make changes, save and close the file and in the future open the same file and make additional changes, then the new modification history is appended to the old.

The modification state of a PCPro database is indicated via the modification icon on the Status Bar. The different filters are:

	The database is not modified. All data has been saved to file and uploaded.
	System data has been modified and has not been saved to file.
	System data has been saved to file but has not been uploaded.
	System data has been modified and has not been saved to file nor uploaded.

SECTION 2 ACCESSING MODIFICATION HISTORY

To access Modification History, complete one of the following:

- ❑ Select the menu item **Reports > Modification History.**

  -- or --

- ❑ Select the clock icon on the toolbar  .

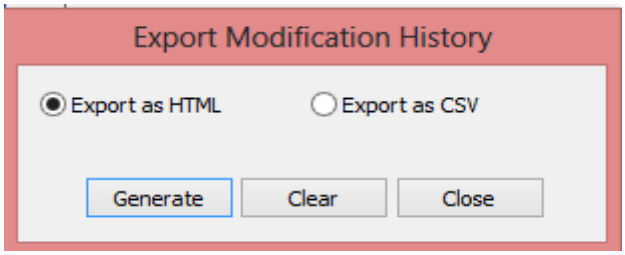
SECTION 3 GENERATING A MODIFICATION HISTORY REPORT

A Modification History Report can be viewed in either HTML format or Comma Separated Variable (CSV) format. Sample formats are shown in Figure D-2 Sample Modification History HTML Format on page D-3 and Figure D-3 Sample Modification History CSV Format on page D-4.

To request a report:

1. Access the report by selecting Modification History from the toolbar or by clicking the clock icon (refer to Section 2 Accessing Modification History).
2. When the **Export Modification History** dialog box is displayed, click either the **HTML** or **CSV** option and press **OK**.

Figure D-1 Export Modification History Dialog Box



3. The report is generated in the format you selected. (Refer to Figure D-2 Sample Modification History HTML Format and Figure D-3 Sample Modification History CSV Format on page D-4).

Figure D-2 Sample Modification History HTML Format

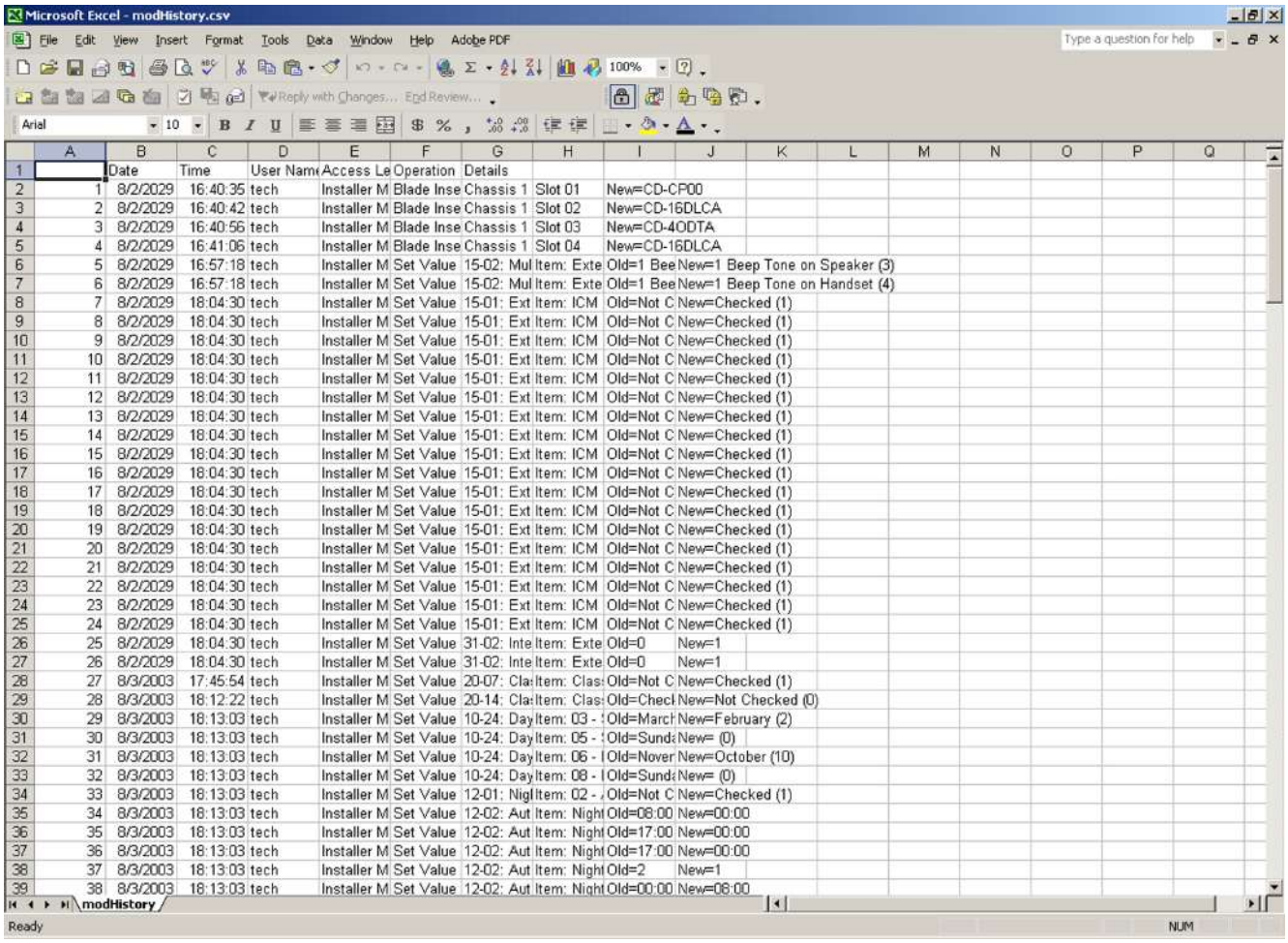
Modification History - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address C:\Program Files\SV8100 Application Suite\SV8100 PCPro\Reports\modHistory.htm

	Date	Time	User Name	Access Level	Operation	Details
1	08/02/29	16:40:35	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 01, New=CD-CP00
2	08/02/29	16:40:42	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 02, New=CD-16DLCA
3	08/02/29	16:40:56	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 03, New=CD-4ODTA
4	08/02/29	16:41:06	tech	Installer Mode (IN)	Blade Inserted	Chassis 1, Slot 04, New=CD-16DLCA
5	08/02/29	16:57:18	tech	Installer Mode (IN)	Set Value	PRG 15-02: Multi-Line Telephone Basic Setup Item Extension 128, 12 - Off-hook Signaling Type Value Old=1 Beep Tone in Speaker and Handset (5), New=1 Beep Tone on Speaker (3)
6	08/02/29	16:57:18	tech	Installer Mode (IN)	Set Value	PRG 15-02: Multi-Line Telephone Basic Setup Item Extension 132, 12 - Off-hook Signaling Type Value Old=1 Beep Tone in Speaker and Handset (5), New=1 Beep Tone on Handset (4)
7	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 101, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
8	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 102, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
9	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 103, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
10	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 104, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)
11	08/02/29	18:04:30	tech	Installer Mode (IN)	Set Value	PRG 15-01: Extension Basic Setup Item ICM Extension 105, 02 - Automatic Trunk Line Seizure Value Old=Not Checked (0), New=Checked (1)

Figure D-3 Sample Modification History CSV Format



Microsoft Excel - modHistory.csv

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1		Date	Time	User Nam	Access Le	Operation	Details										
2	1	8/2/2029	16:40:35	tech	Installer M	Blade Inse	Chassis 1	Slot 01	New=CD-CP00								
3	2	8/2/2029	16:40:42	tech	Installer M	Blade Inse	Chassis 1	Slot 02	New=CD-16DLCA								
4	3	8/2/2029	16:40:56	tech	Installer M	Blade Inse	Chassis 1	Slot 03	New=CD-4ODTA								
5	4	8/2/2029	16:41:06	tech	Installer M	Blade Inse	Chassis 1	Slot 04	New=CD-16DLCA								
6	5	8/2/2029	16:57:18	tech	Installer M	Set Value	15-02: Mul	Item: Exte	Old=1 Bee	New=1 Beep Tone on Speaker (3)							
7	6	8/2/2029	16:57:18	tech	Installer M	Set Value	15-02: Mul	Item: Exte	Old=1 Bee	New=1 Beep Tone on Handset (4)							
8	7	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
9	8	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
10	9	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
11	10	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
12	11	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
13	12	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
14	13	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
15	14	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
16	15	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
17	16	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
18	17	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
19	18	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
20	19	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
21	20	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
22	21	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
23	22	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
24	23	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
25	24	8/2/2029	18:04:30	tech	Installer M	Set Value	15-01: Ext	Item: ICM	Old=Not C	New=Checked (1)							
26	25	8/2/2029	18:04:30	tech	Installer M	Set Value	31-02: Inte	Item: Exte	Old=0	New=1							
27	26	8/2/2029	18:04:30	tech	Installer M	Set Value	31-02: Inte	Item: Exte	Old=0	New=1							
28	27	8/3/2003	17:45:54	tech	Installer M	Set Value	20-07: Cla	Item: Class	Old=Not C	New=Checked (1)							
29	28	8/3/2003	18:12:22	tech	Installer M	Set Value	20-14: Cla	Item: Class	Old=Checl	New=Not Checked (0)							
30	29	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 03 -	Old=March	New=February (2)							
31	30	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 05 -	Old=Sunda	New= (0)							
32	31	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 06 -	Old=Nover	New=October (10)							
33	32	8/3/2003	18:13:03	tech	Installer M	Set Value	10-24: Day	Item: 08 -	Old=Sunda	New= (0)							
34	33	8/3/2003	18:13:03	tech	Installer M	Set Value	12-01: Nig	Item: 02 -	Old=Not C	New=Checked (1)							
35	34	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=08:00	New=00:00							
36	35	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=17:00	New=00:00							
37	36	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=17:00	New=00:00							
38	37	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=2	New=1							
39	38	8/3/2003	18:13:03	tech	Installer M	Set Value	12-02: Aut	Item: Night	Old=00:00	New=06:00							

modHistory

Ready

NUM

Connection Accounts

Appendix E

SECTION 1 OVERVIEW

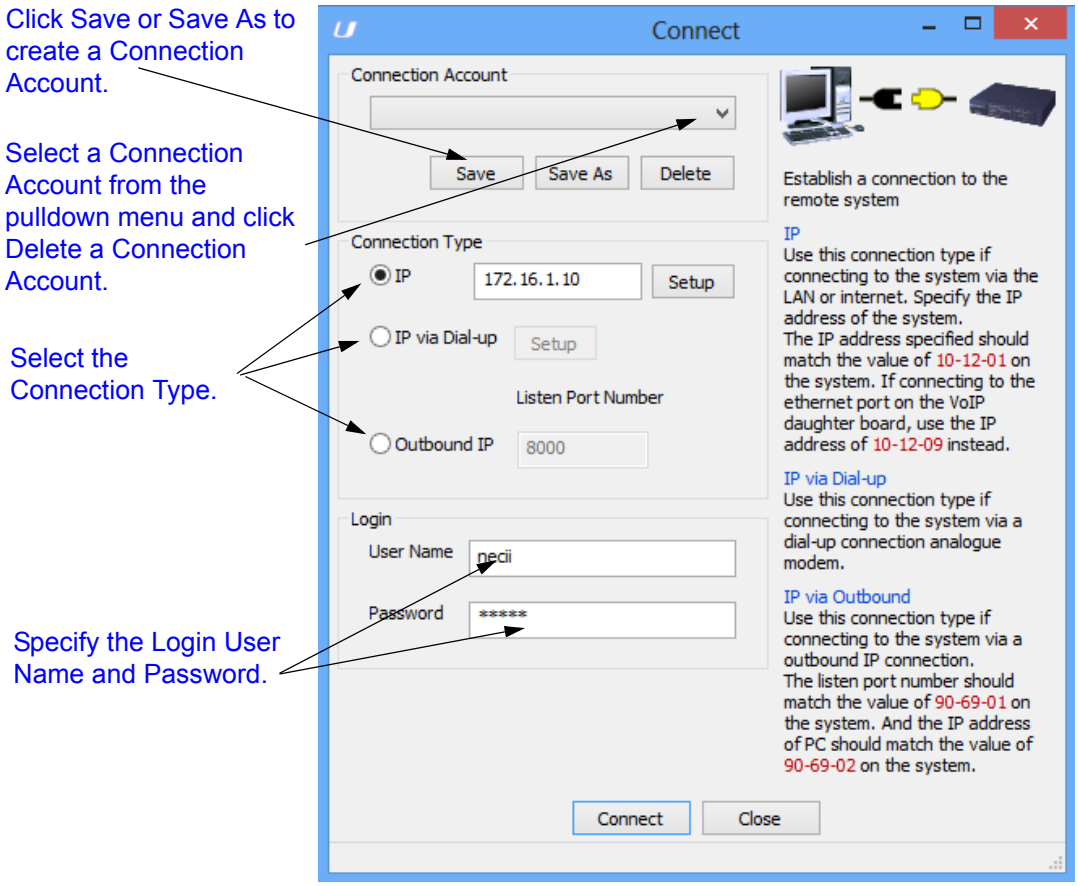
Connection Accounts provide a convenient way of loading user defined connection settings. These are application wide settings. Connection Accounts can be created in two ways:

- ❏ Via the Connect dialog
- ❏ Via the Connection Accounts dialog

SECTION 2 CREATING/DELETING A CONNECTION ACCOUNT USING THE CONNECT DIALOG

This section describes how to use the Connect dialog to create a new Connection Account or delete an existing Connection Account. (Refer to Figure E-1 Connect DialogCreating/Deleting Connection Account on page E-2.)

Figure E-1 Connect DialogCreating/Deleting Connection Account

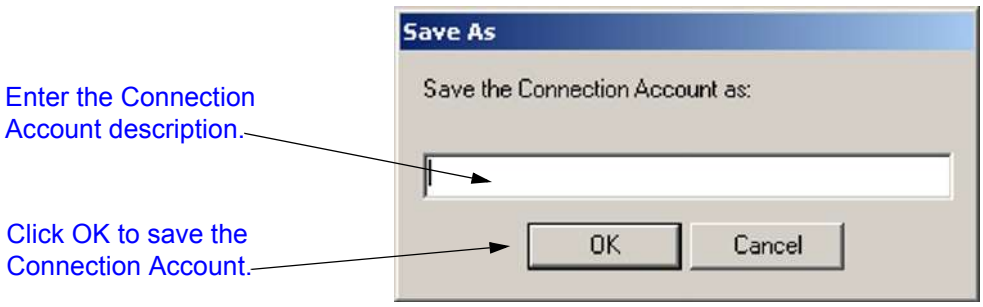


2.1 Creating a New Account

To create an account using Connect dialog:

1. Select a **Connection Type** and specify settings relevant to the Connection Type.
2. Specify the **Login User Name** and **Password** used to allow the connection.
3. Press the **Save** or **Save As** button located in the Connection Account section of the dialog.
4. When the Save As dialog is displayed, enter a description of the connection (refer to Figure E-2 Save As Connection Account Dialog on page E-3.)

Figure E-2 Save As Connection Account Dialog



5. Press **OK** to save the Connection Account.

2.2 Deleting an Account

An existing Connection Account can be deleted.

To delete an existing account:

1. Select the **Connection Account** from the pulldown menu on the Connect dialog. (Refer to Figure E-1 Connect DialogCreating/Deleting Connection Account on page E-2.)
2. Click the **Delete** button.

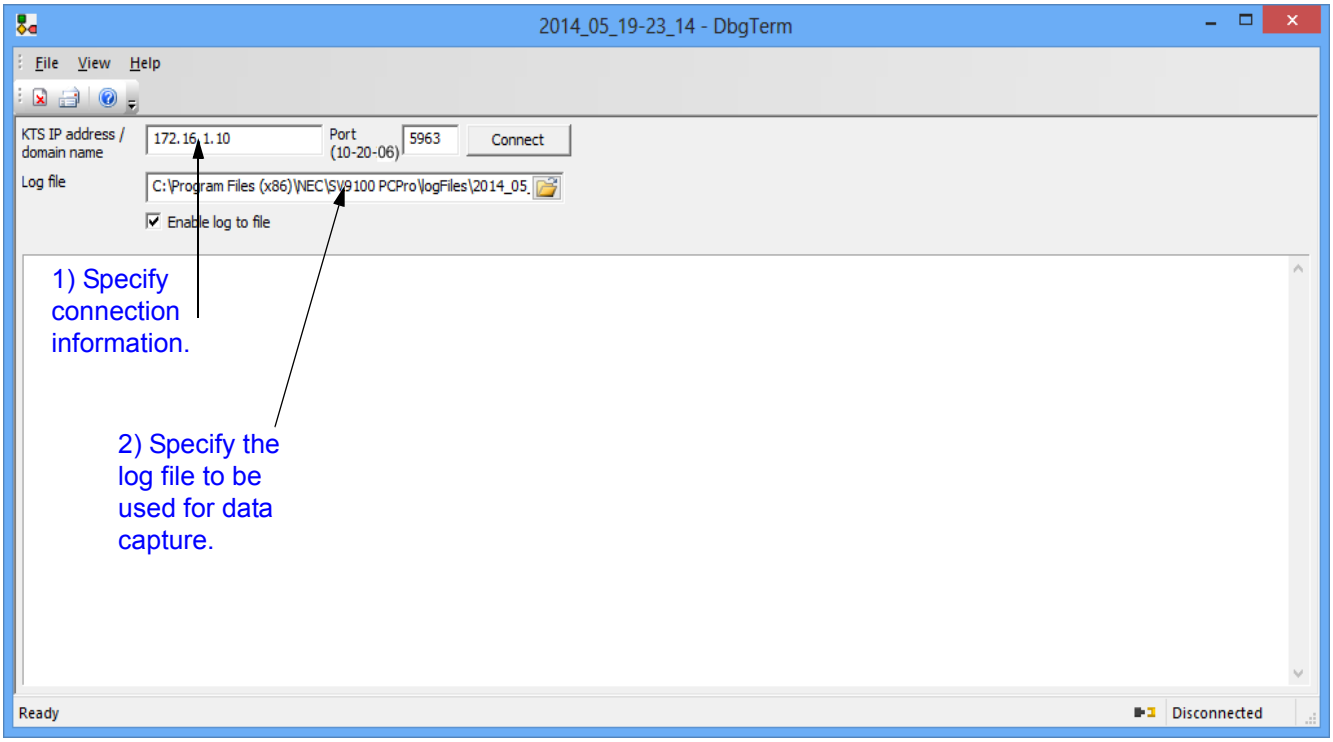
Debug Terminal

Appendix F

SECTION 1 OVERVIEW

PCPro provides a debug terminal that can be used to capture trace logs from the GCD-CP10 in the chassis. The debug terminal communicates with the chassis via the LAN. A TCP connection on port 5963 is established between the debug terminal and the chassis. This port number is blank by default now. It needs to be set under 10-20-06 and also DIM Access needs to be enabled under 90-31

Figure F-1 Debug Terminal Dialogs



SECTION 2 LAUNCHING THE DEBUG TERMINAL

You can launch the debug terminal in one of two ways:

- Select the menu item **Tools > System > DbgTerm**.

  -- or --

- Click on the DbgTerm icon on the toolbar  .

If PCPro is connected via LAN to a chassis, then the debug terminal automatically tries to connect to the same IP address (domain name). Once the debug terminal is running, incoming debug messages from the chassis appear on the screen. You can capture the incoming data to a file by specifying a log file name and enabling the log capture.

Log capture can be enabled or disabled at the your discretion. A message is printed in the log file indicating the date and time the capture was enabled or disabled.

Feature Activation

Appendix G

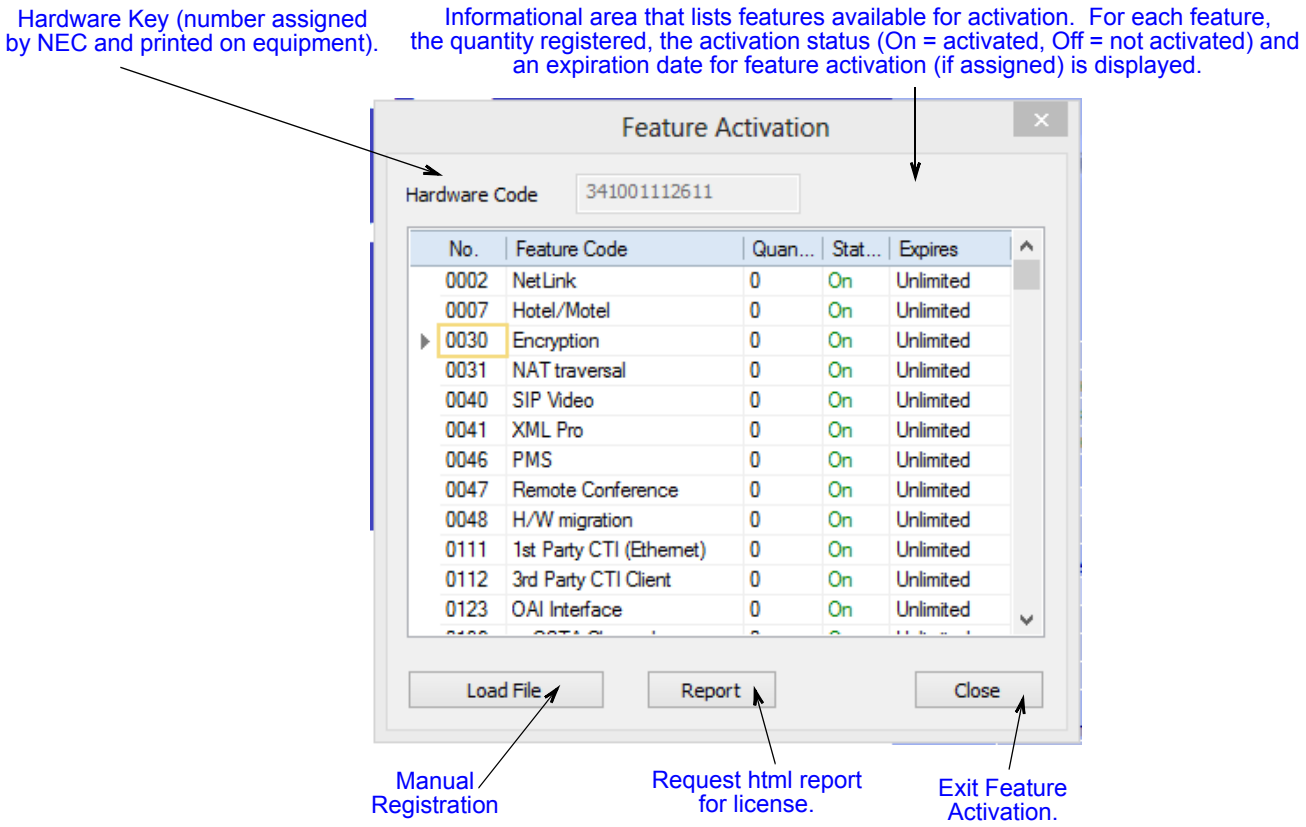
SECTION 1 INTRODUCTION

There are three methods for activation of features on the GCD-CP10: automatic activation via PCPro, manual activation via PCPro and manual activation via WebPro.

SECTION 2 FEATURE ACTIVATION USING PCPRO

Some system features require registration before they can be used. Feature Activation registers these manually through input of Activation Codes. Feature Activation can only occur when PCPro is connected to a system.

Figure G-1 PCPro Feature Activation Dialog



2.1 Accessing Feature Activation

When PCPro is connected to a chassis, access the Feature Activation dialog by selecting the menu item **Home > Maintenance > Feature Activation**.

2.2 Manually Activating a Feature

Manual Activation does not require that you have an Internet connection. However, you must have previously downloaded the license file that was generated by the NEC Product License Server. The license file contains the Software Code, which is required to activate the feature.

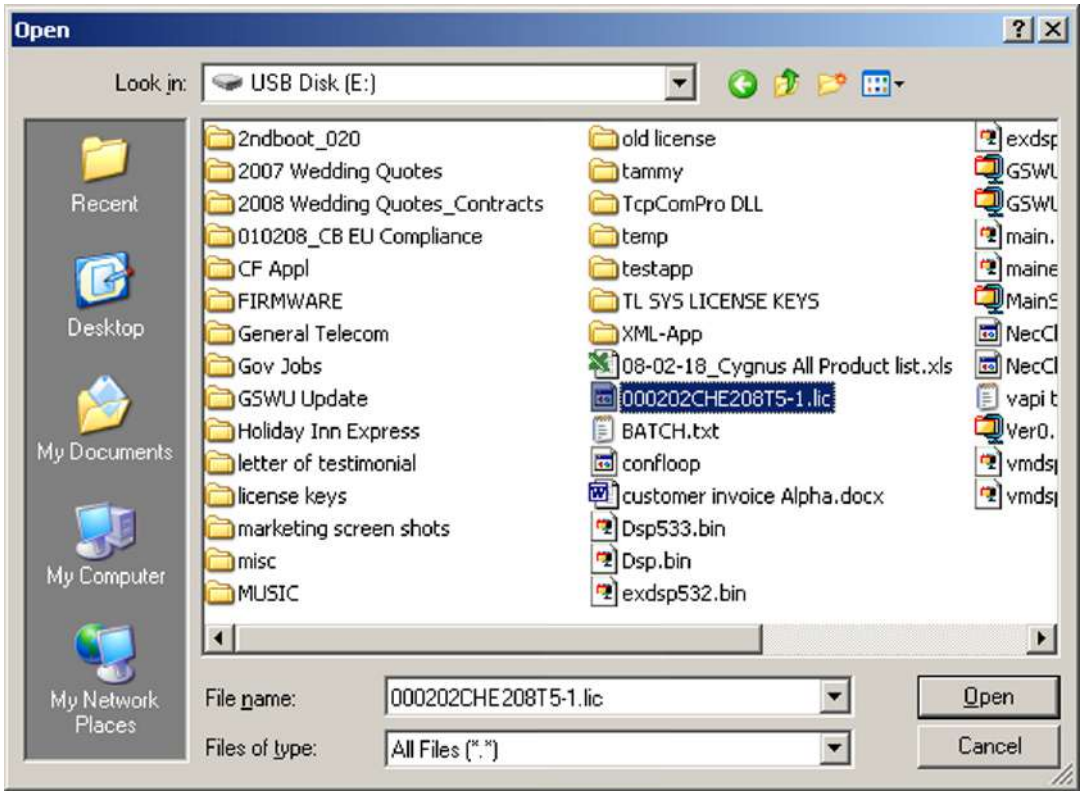
To activate a feature manually:

1. Launch PCPro and access **Feature Activation** (refer to 2.1 Accessing Feature Activation).
2. If connected to the SV9100 system, the Hardware Code is retrieved and displayed.
3. Click **Load File** (refer to Figure G-2 Feature Activation Open File Dialog on page G-3).

CAUTION

This file can reside on the PC or you can copy it to a flash drive to reference if activating other locations.

Figure G-2 Feature Activation Open File Dialog



4. When you have located the file (xxxxxxx.lic), select it and click **Open**.
5. When the confirmation dialog is returned, click **Save & upload now** to immediately save the file on the ProPro database and activate the feature.

SECTION 3 FEATURE ACTIVATION USING WEBPRO

WebPro can also be used to manually activate features.

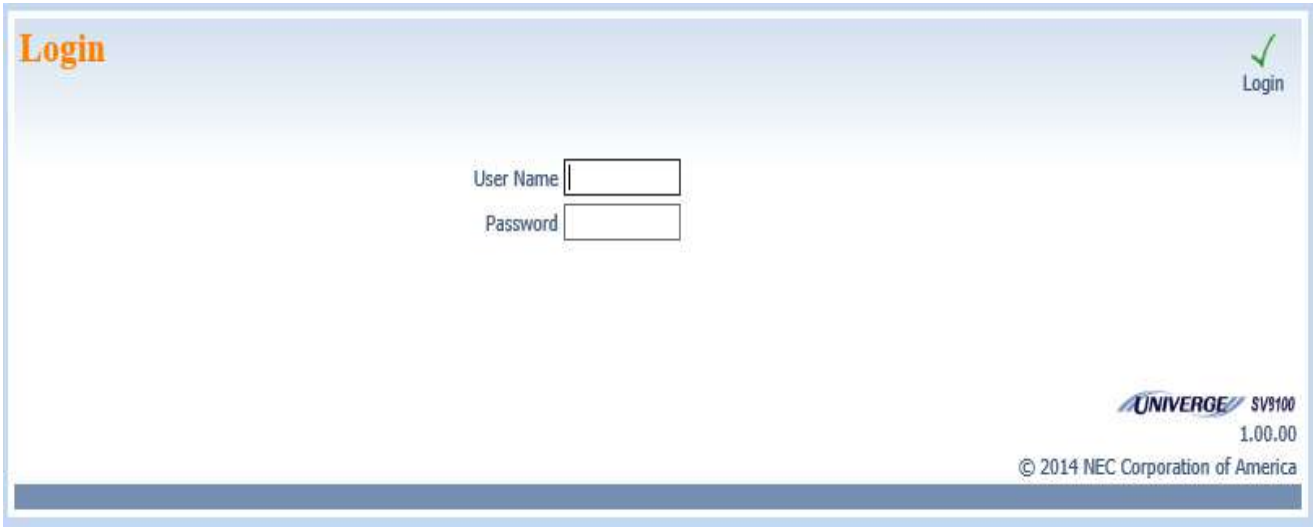
3.1 Manually Activating a Feature

To activate a feature using WebPro, you must have Internet connection.

1. Point your browser at the IP address of the GCD-CP10 (set in PGM 10-12-01).
2. When the Home page is displayed, enter the **User Name** and **Password**.

   *The default User Name = **tech** and Password = **12345678**.*

Figure G-3 WebPro Login Screen



3. If login was successful, the WebPro Home page is displayed. Click **Feature Activation**.

Figure G-4 Feature Activation Screen WebPro Home Page

4. The WebPro License Registration dialog is displayed.

Figure G-5 Feature Activation Screen WebPro Manual Activation

5. If connected to the SV9100 system, the Hardware Code is retrieved and displayed.

6. In the **Upload a license file to the KTS** field, click **Browse** to locate the license file (XXXXXXX.lic).

CAUTION

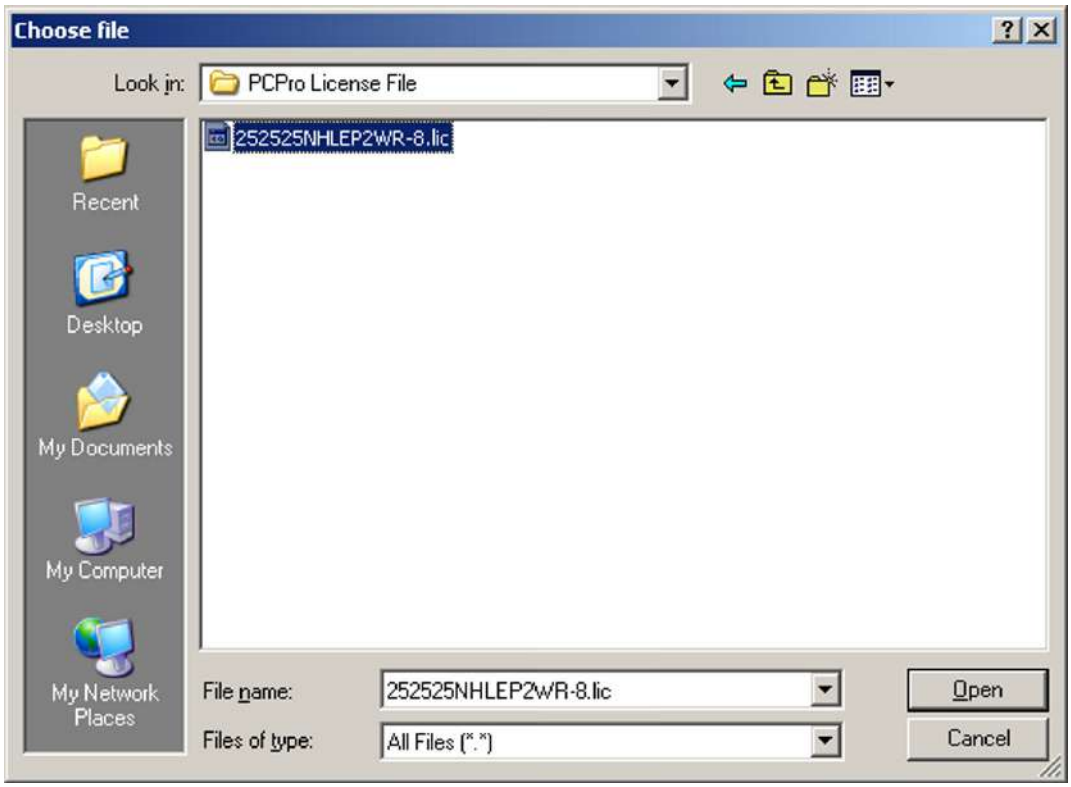
The license file is obtained by accessing the NEC Product Activation Server, or by activating the feature using PCPro (refer to Section 3 Feature Activation Using WebPro on page G-4).

TIP

This file can reside on the PC or you can copy it to a flash drive to reference if activating other locations.

7. When the Open dialog is displayed, select the license file and click **Open**. When prompted to proceed, click **Yes**.

Figure G-6 Feature Activation Open File Dialog WebPro



8. Click **Upload** to retrieve the license file.
9. If the license file upload is successful, the feature is activated.

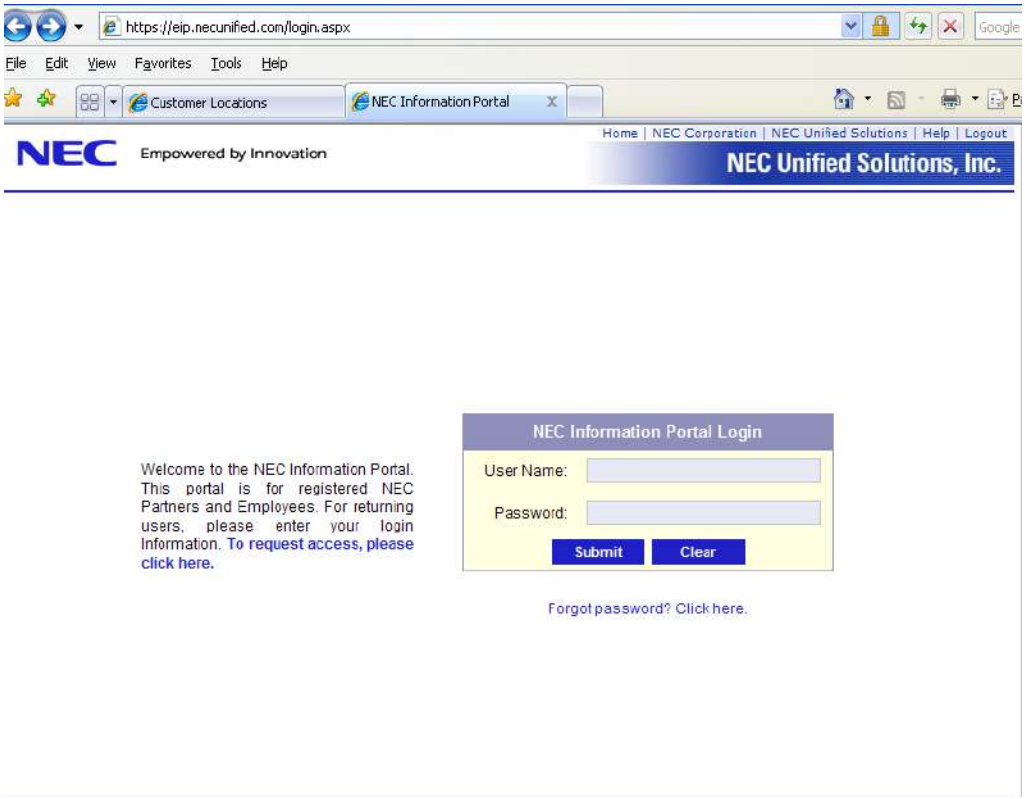
3.2 Recovery License

Recovery License allows you to license all the features for 30 days. Please refer to the **SV9100 Features and Specifications Manual** for more information.

To Activate the Recovery License:

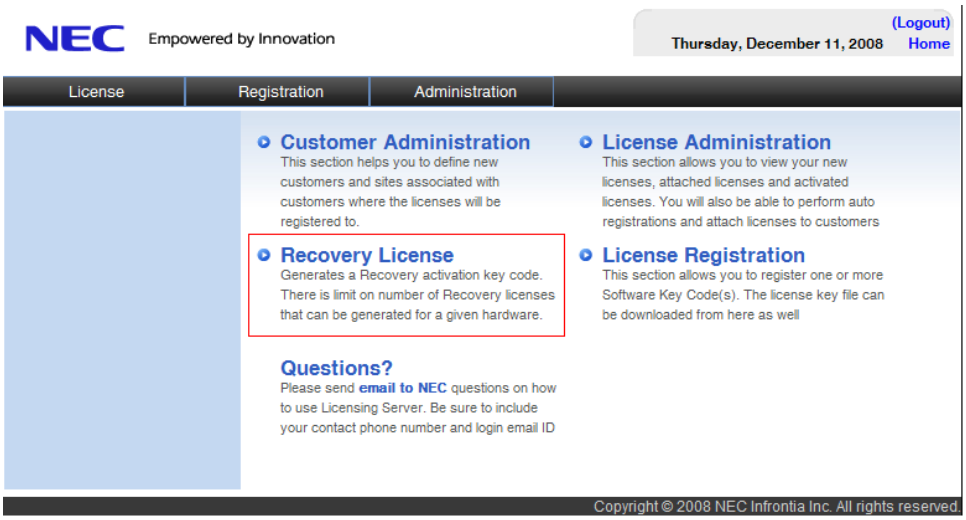
1. Go to **https://eip.necunified.com/login.aspx**

Figure G-7 NEC Information Portal Login Screen



2. Input the User Name and Password.
3. Go to the Recovery License section.

Figure G-8 Recovery License Access Screen



4. Select the Company and Site location.
5. Generate Recovery License.

NOTE *You can only have two for each site.*

3.3 Further Information

For further information on Feature Activation visit:

https://eip.necunified.com/login.aspx

Database File Conversion

Appendix H

SECTION 1 OVERVIEW

This feature converts an SV8100 PCPro database file into a SV9100 PCPro database file.

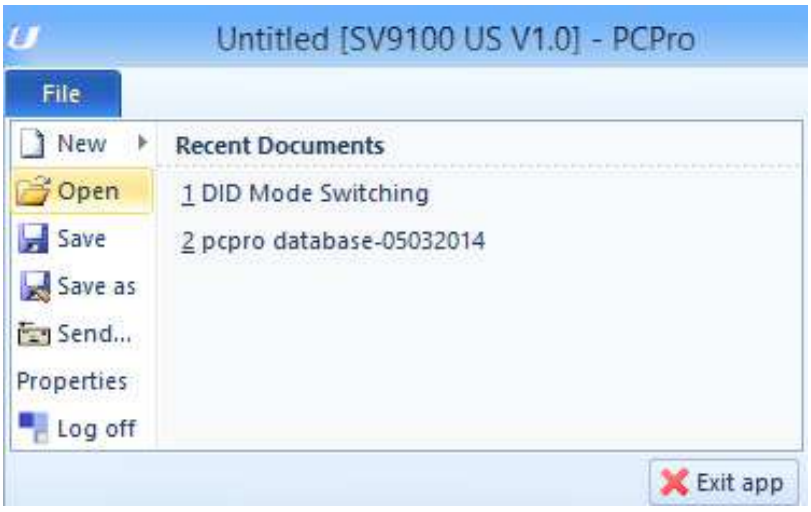
SECTION 2 OPERATION

Use the following procedure to perform SV8100 PCPro configuration file (*.pcp) to SV9100 PCPro configuration file (*.pcpx).

2.1 SV9100PCPro

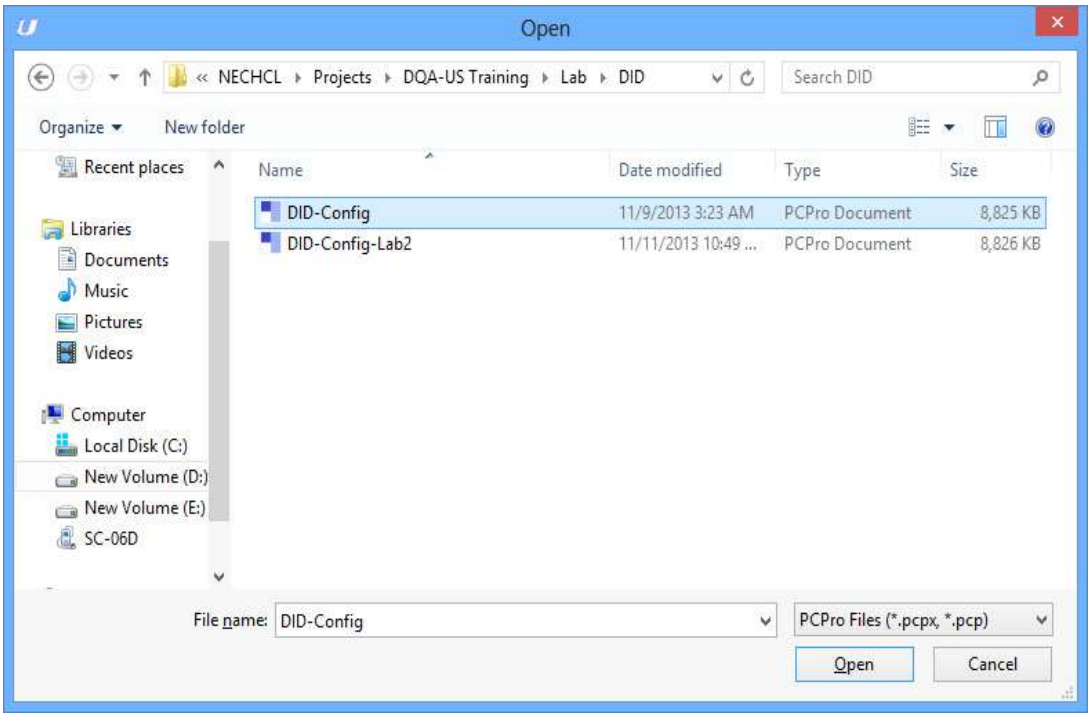
1. Select [File] -> [Open], the file open dialog appears, then select file(*.pcp) to execute system data conversion.

Figure H-1 Selecting File



2. Please select PCPro database file to convert. (Extension is available with “*.pcp”,”*.pcpx”.)
   >Select the file and click **Open**.

Figure H-2 Database File Conversion Selection



3. After open the file to convert, the following confirmation dialog will appear. Click **OK** to convert the file into SV9100 database file.

Figure H-3 DIM File Download Status

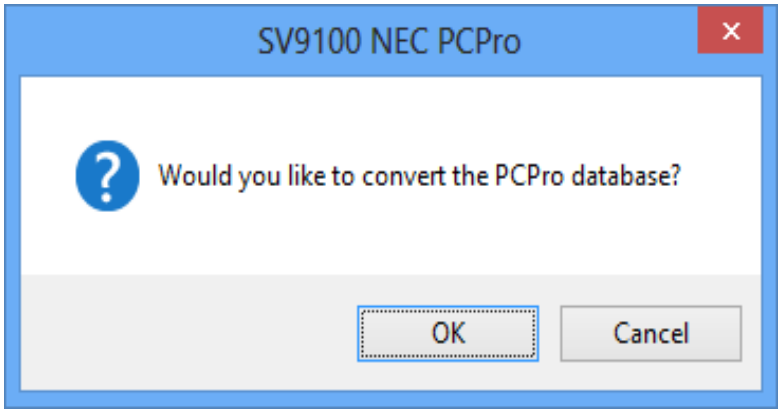
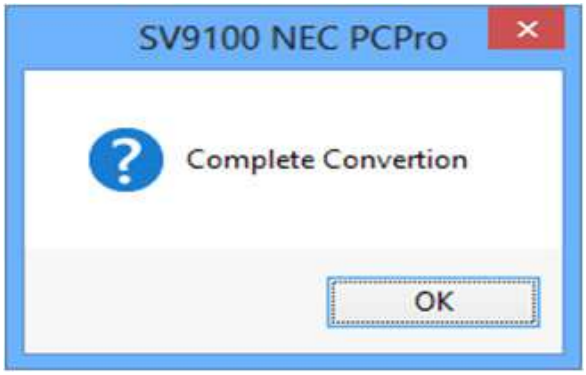
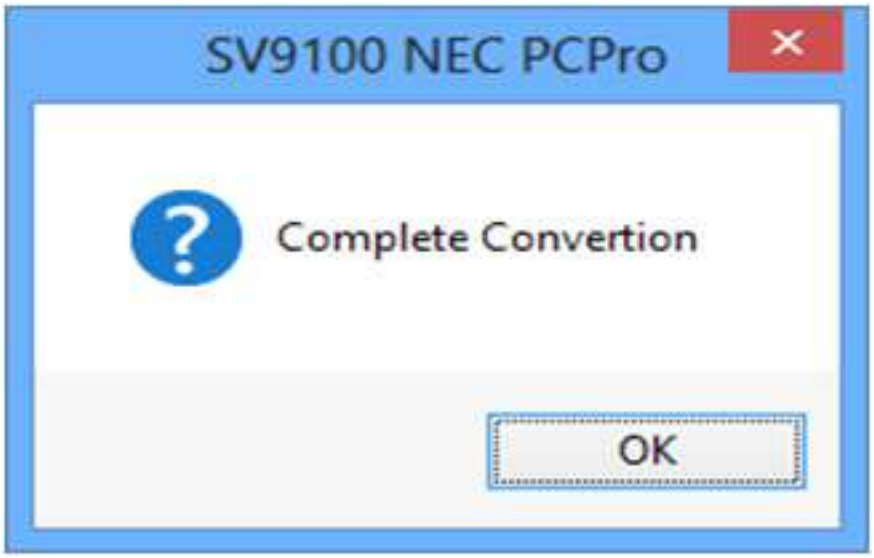


Figure H-4 Complete File Conversion



4. Conversion process is now completed.


SV9100 NEC PCPro
Complete Convertion
OK

DIM File Download

Appendix I

SECTION 1 OVERVIEW

The DIM File Download feature supports downloading a DIM log file using PCPro. A DIM log file contains operational, system information, and critical information about the system.

With Version 2.xx.xx system software the DIM files can be downloaded to a USB drive mounted to the CPU. Use program 90-03-02, after mounting a USB drive to the CPU, enter 1 and press **Transfer** to copy.

SECTION 2 OPERATION

Use the following procedure to download a DIM log file using PCPro.

1. From the PCPro toolbar, select **Tools > System > DIM File Download**. A DIM File Download dialog box appears, Figure I-1 - DIM File Download.

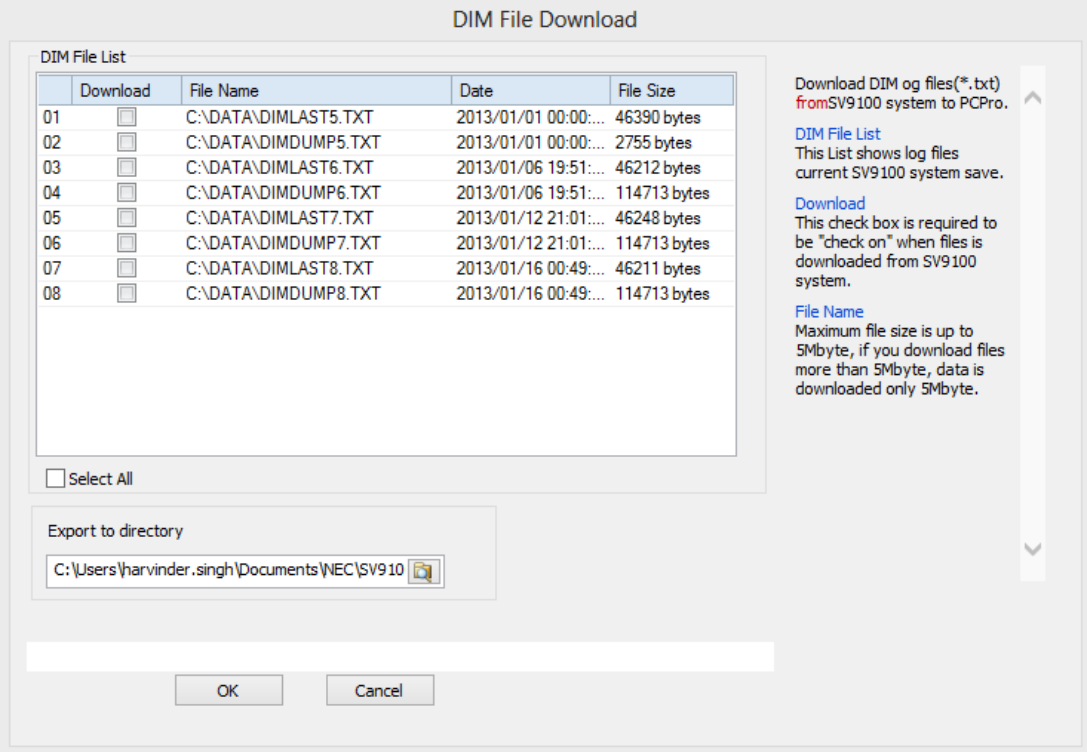
NOTE *The DIM File Download menu is only available when PCPro is connected to the system.*

Figure I-1 DIM File Download

NOTE

When the Download Dialogue runs, PCPro requests file information from "C:\\DATA.txt"". The Dialog Box displays all existing files with "C:\\DATA*.txt"".*

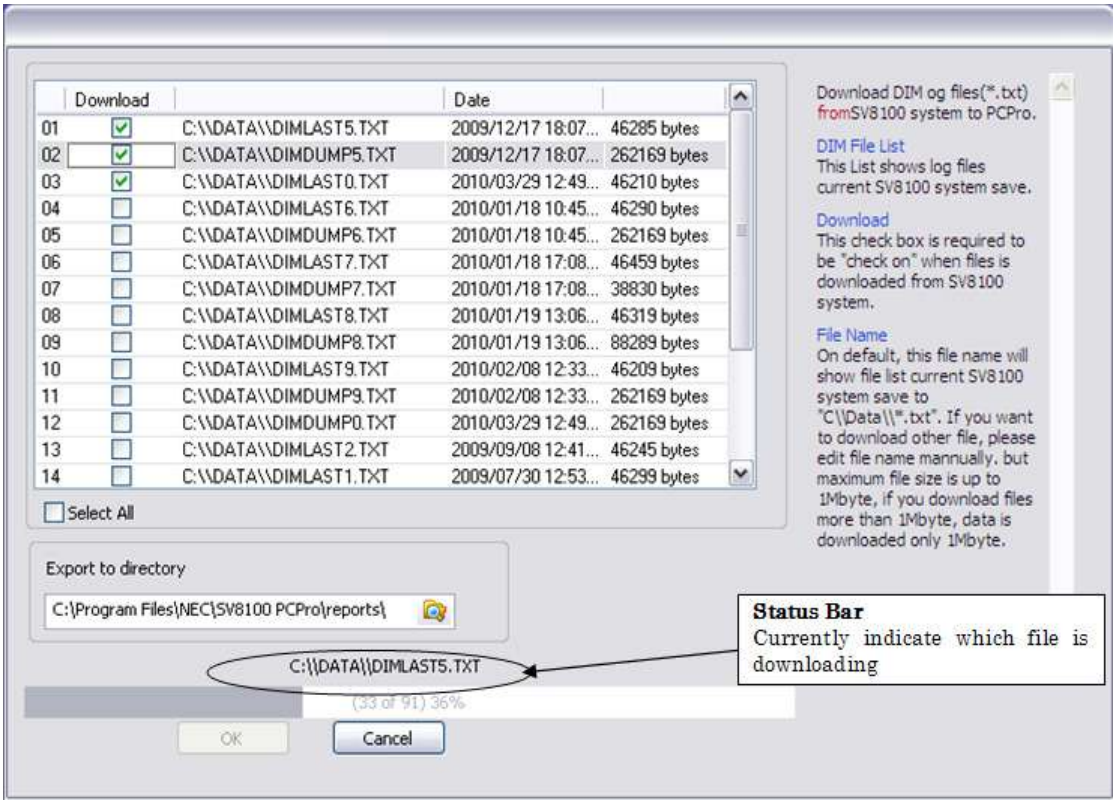
Figure I-2 DIM File Download Dialog Box



2. Check the **Download** box next to the file(s) to download from the system.

3. Click **OK**. PCPro begins downloading the selected file(s) from the system. A status line on the bottom indicates which file is being downloaded at that moment. Refer to Figure I-3 - DIM File Download Status.

Figure I-3 DIM File Download Status



CAUTION

Limitation:
The maximum file size that it is available to download with PCPro is 1MB per file.

If the file is 1.5MB, the first 1MB will download, but the last 500 KB will not download.

Maintenance Features

Appendix J

SECTION 1 OVERVIEW

The following four features are supported:

- ❏ SRAM Information via Web / PC Pro.
- ❏ System Alarm display via Web Pro.
- ❏ T1/ISDN layer status display via Web / PC Pro.
- ❏ USB Backup via Web Pro.

SECTION 2 OPERATION

2.1 SRAM Information via Web Pro/PCPro

The following data is saved in internal SRAM and can be checked via Web/PC Pro. These are listed in PRG 93-xx. These programs are Read-Only, and cannot be accessed via User Pro.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

3 = SA (System Administrator Level 1)

Table J-1 Program Table

Program No.	Name	Input Data (Read Only)
93-01-01	Day/Night Mode Indicates current day/night mode per night mode service group.	1 = Mode 1 2 = Mode 2 3 = Mode 3 4 = Mode 4 5 = Mode 5 6 = Mode 6 7 = Mode 7 8 = Mode 8

Table J-1 Program Table (Continued)

Program No.	Name	Input Data (Read Only)
93-02-01	Automatic Transfer to Transfer Indicates Automatic Trunk Transfer setting status.	0 = Disable 1 = Enable
93-02-02	Trunk Port Disable by Service Code Indicates the Trunk Port Disable (Busy Out) status.	0 = Disable 1 = Enable
93-03-01	Call Forward - All/No Answer/Both Ring Indicates Call Forward -All/No Answer/Both Ring setting status per extension.	0: = Call Forwarding off 1 = Call Forwarding with Both Ringing 2 = Call Forwarding when No Answer 3 = Call Forwarding All Call
93-03-02	Call Forwarding Destination for Both Ring, All Call, No Answer Indicates Call Forward-All/No Answer/BothRing destination number set per extension	0-9, *, #, P, R,@ (Up to 24 digits)
93-03-03	Call Forward-Busy Indicates Call Forward-Busy setting status per extension.	0:Call Forward-Off 1:Call Forward-Busy or No Answer 2:Call Forward-Busy
93-03-04	Call Forwarding Busy Destination. Indicates Call Forward-Busy destination number set per extension.	0-9, *, #, P, R,@ (Up to 24 digits)
93-03-05	Call Forwarding – Follow-Me Indicates Call Forward-Follow-Me setting status per extension.	Extension Number (Up to 8 digits)
93-03-06	Call Forwarding Follow-Me Destination. Indicates Call forwarding follow-me extension number set per extension.	0 = Disable 1 = Enable
93-03-07	Do Not Disturb Indicates DND setting status per extension.	0 = No setting 1 = DND External 2 = DND Intercom 3 = DND Transfer 4 = DND All
93-03-08	Message Waiting (Set) Indicates extension number which you set Message Waiting.	Extension Number (Up to 8 digits)
93-03-09	Message Waiting (Receive) Indicates extension number when left Message Waiting	Extension Number (Up to 8 digits)

Table J-1 Program Table (Continued)

Program No.	Name	Input Data (Read Only)
93-03-10	Alarm Clock 1 Indicates Alarm Clock 1 setting status.	0 = Disable 1 = Enable
93-03-11	Preset time at Alarm 1 Indicates the time set in Alarm Clock 1.	Time set in Alarm Clock 1. When PRG 93-03-10 is "0", [00:00] is indicated.
93-03-12	Alarm Clock 2 Read only. Indicates Alarm Clock 2 setting status.	0 = Disable 1 = Enable
93-03-13	Preset Time at Alarm 2 Indicates the time set in Alarm Clock 2.	Time set in Alarm Clock 2. When PRG 93-03-12 is "0", [00:00] is indicated.
93-03-14	Forced Intercom Ring (ICM Call Type) Indicates ICM Call Type per extension.	0 = Disable (Voice) 1 = Enable (Signal)
93-03-15	BGM Indicates BGM setting status per extension.	0 = Disable 1 = Enable
93-03-16	Key Touch Tone Indicates Key Touch Tone setting status per extension.	0 = Disable 1 = Enable
93-03-17	Dial Block Indicates Dial Block setting status per extension.	0 = Disable 1 = Enable
93-03-18	Repeat Dial Indicates Repeat Dial setting status per extension.	0 = Disable 1 = Enable
93-03-19	Headset Mode Switching Indicates Headset Mode Switching setting status per extension.	0 = Disable 1 = Enable
93-03-20	Headset Ringing Mode Switching Indicates Headset Ringing Mode Switching setting status per extension	0 = Disable 1 = Enable
93-04-01	Redial Data Indicates the number stored in Outgoing call history.	Dial Data : 1~9, 0, *, #, P,R,@ (Up to 24 digits)
93-04-02	Name Indicates the name stored in Outgoing call history.	Up to 12 characters

Table J-1 Program Table (Continued)

Program No.	Name	Input Data (Read Only)
93-05-01	Set Automatic transfer at Department Group Call Indicates Automatic transfer setting status per Department Group.	0 = Disable 1 = Enable
93-05-02	Set Delayed Transfer at Department Group Call Indicates Delayed transfer setting status per Department Group.	0 = Disable 1 = Enable
93-05-03	Set Delayed Transfer at Department Group Call Indicates Delayed transfer setting status per Department Group.	0 = Disable 1 = Enable
93-06-01	IP Address of the 1st Party CTI Client Indicates the IP Address of the 1st Party CTI Client.	IP Address: xxx.xxx.xxx.xxx
93-06-02	Availability of 1st Party CTI Connection Indicates availability of the 1st Party Client connection.	0 = Not available 1 = Available

Figure J-1 Example of Program 93-01

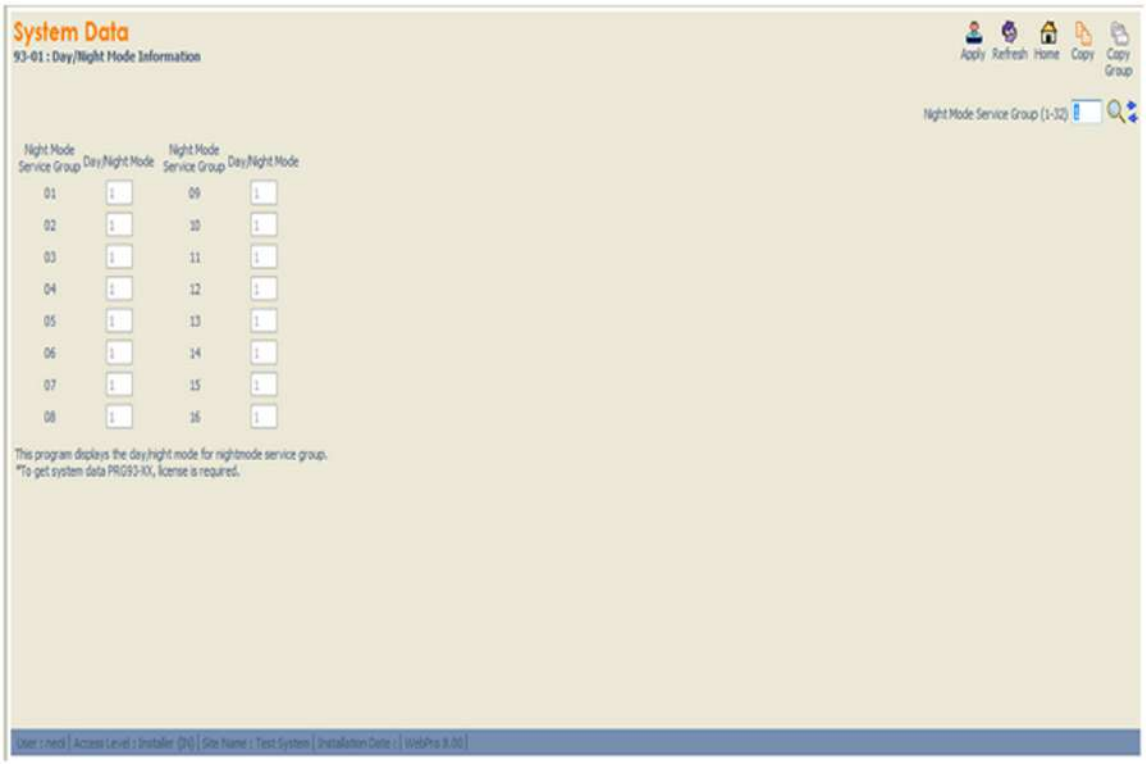


Figure J-1 Example of Program 93-02

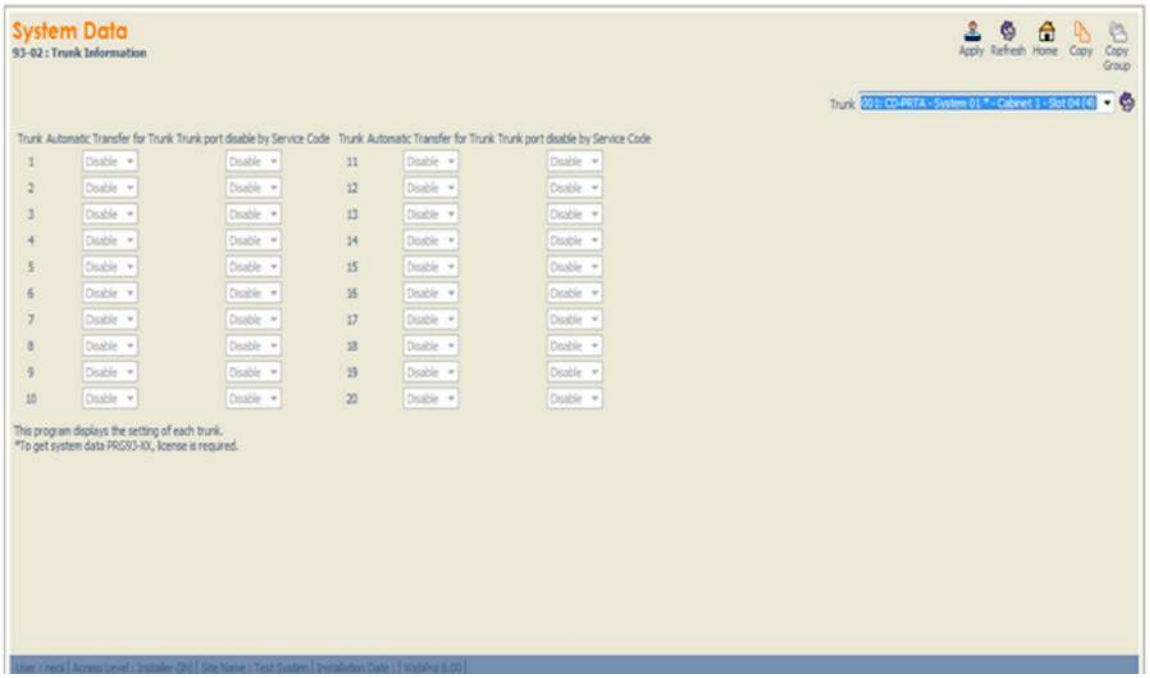


Figure J-1 Example of Program 93-03

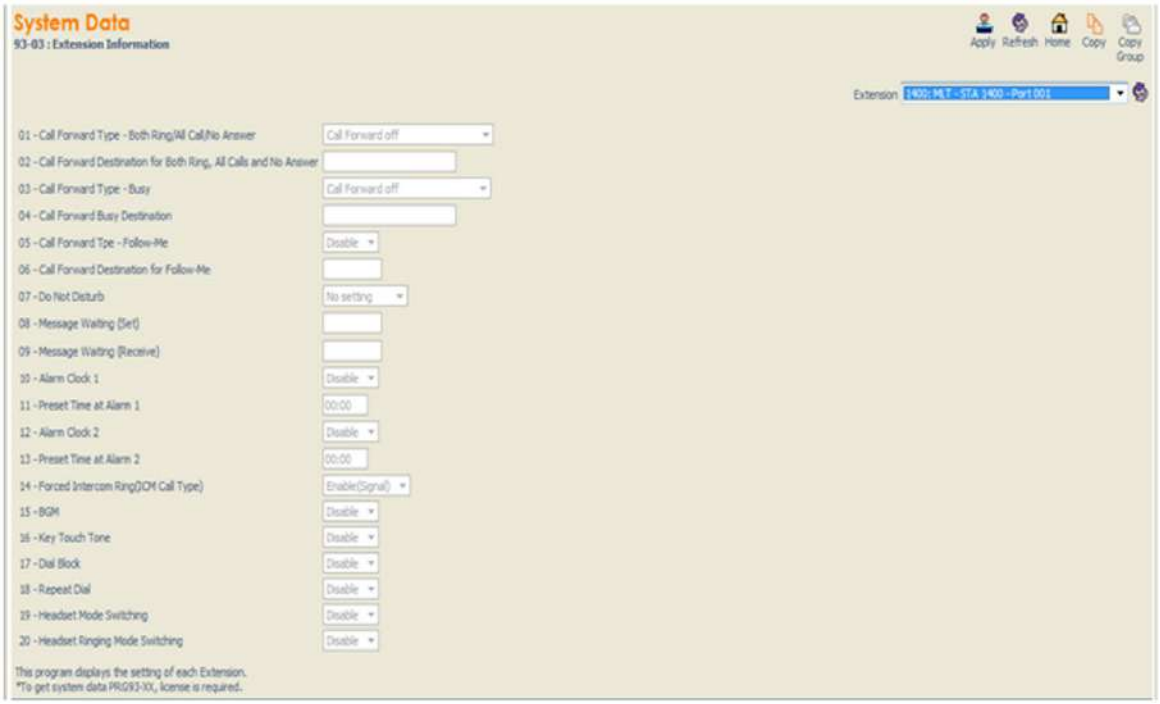


Figure J-1 Example of Program 93-04

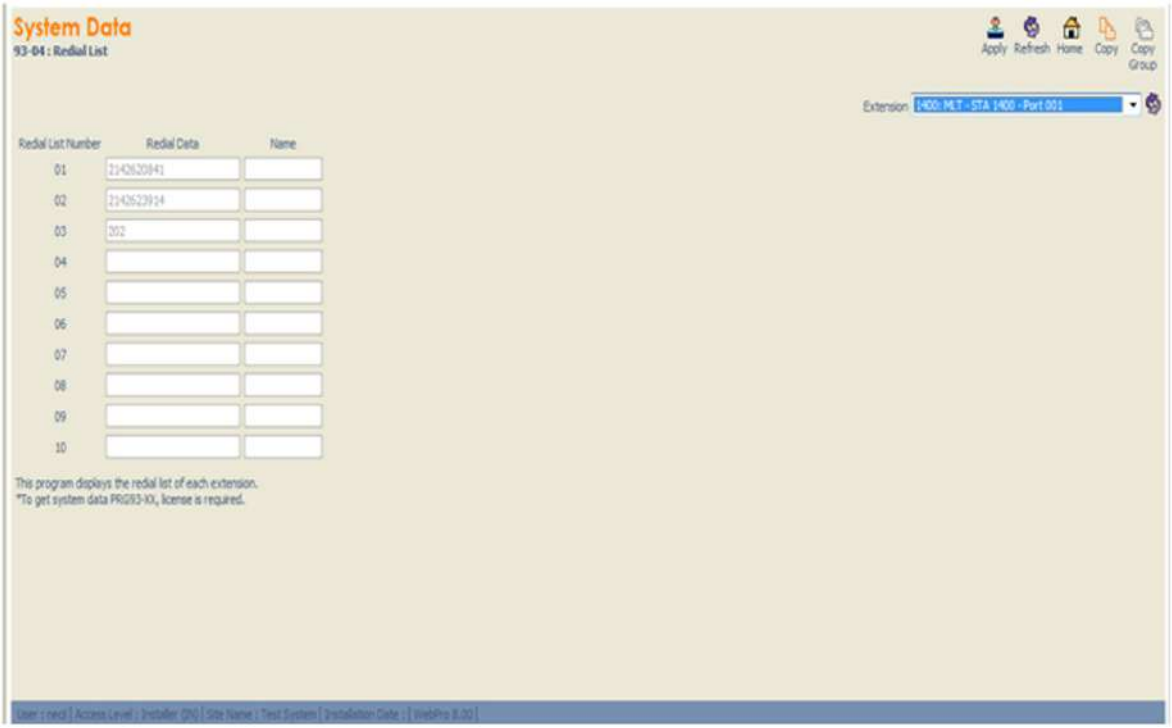
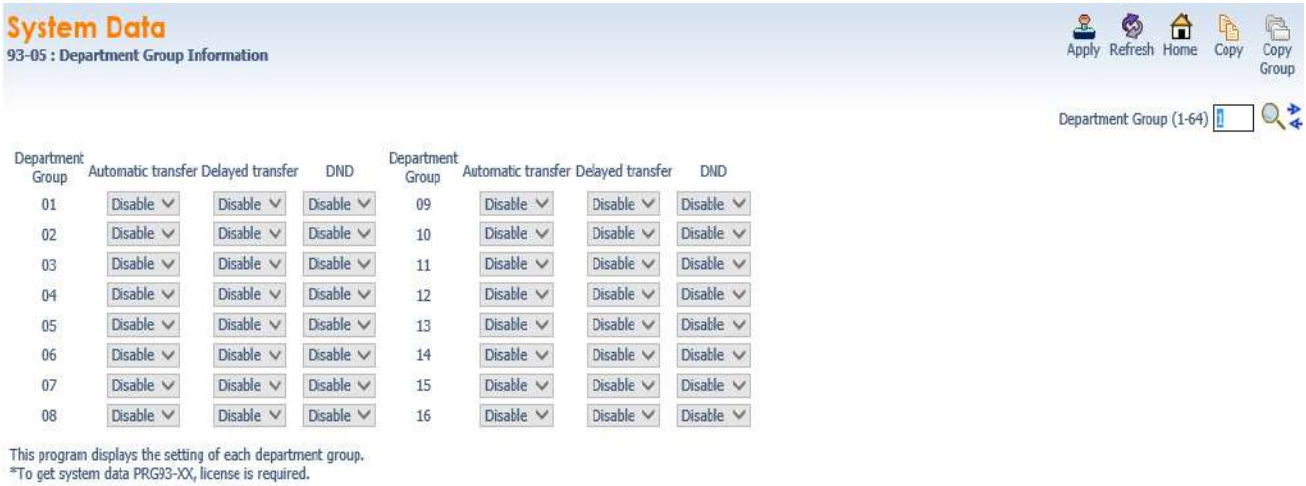


Figure J-1 Example of Program 93-05



2.2 System Alarm display via WebPro

The system alarm can be checked via WebPro. By clicking the System Alarm icon at the home screen of WebPro, up to 100 alarm reports can be monitored. WebPro does not support an alarm report output.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

Figure J-2 Example of WebPro Home Screen

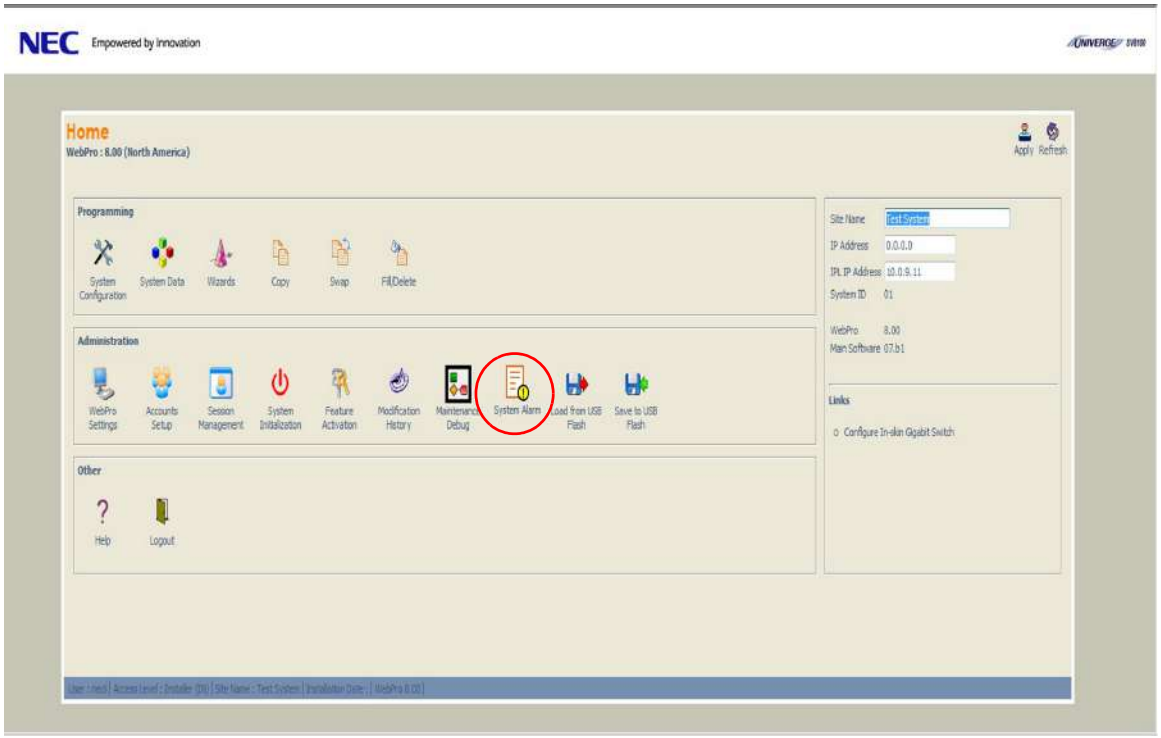
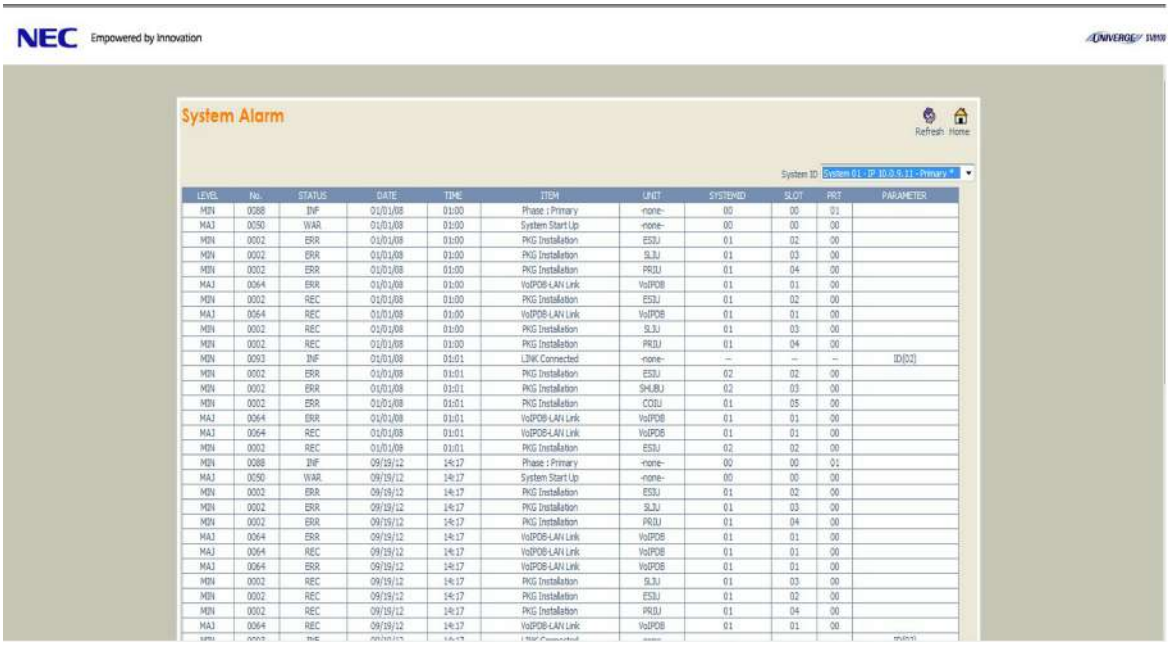


Figure J-3 System Alarm Screen



2.3 T1/ISDN Layer Status Display via WebPro

WebPro can monitor T1 / ISDN link status saved in PRG90-60 (T1/ISDN Layer Status Information).

This program displays layer status information for T1/PRI/BRI packages.

- =No link

0 = Link

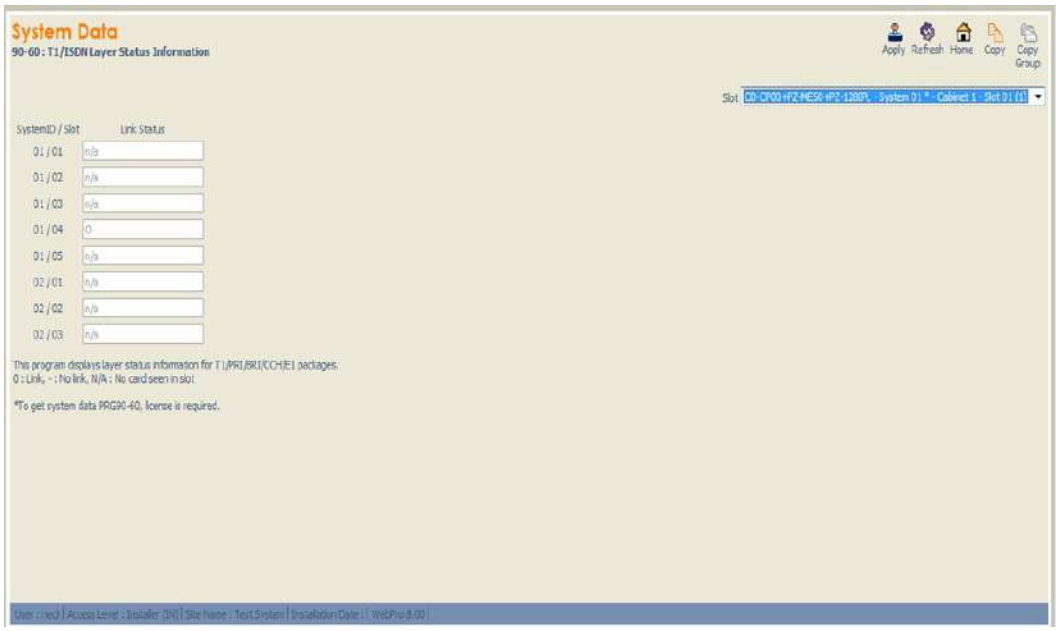
N/A = except BRI or PRI card is mounted.

The following user level can access the function:

1 = MF (Manufacturer Level)

2 = IN (Installer Level)

Figure J-4 90-60: T1/ISDN Layer Status Information



2.4 USB Backup via WebPro

USB backup can save the SRAM data or programmed data to a USB drive using WebPro. An alarm report can be also saved together at the time of USB saving execution.

System data can also be uploaded from the USB drive to the CPU card using WebPro.

The following user level can access the function:

1 = MF (Manufacturer Level)

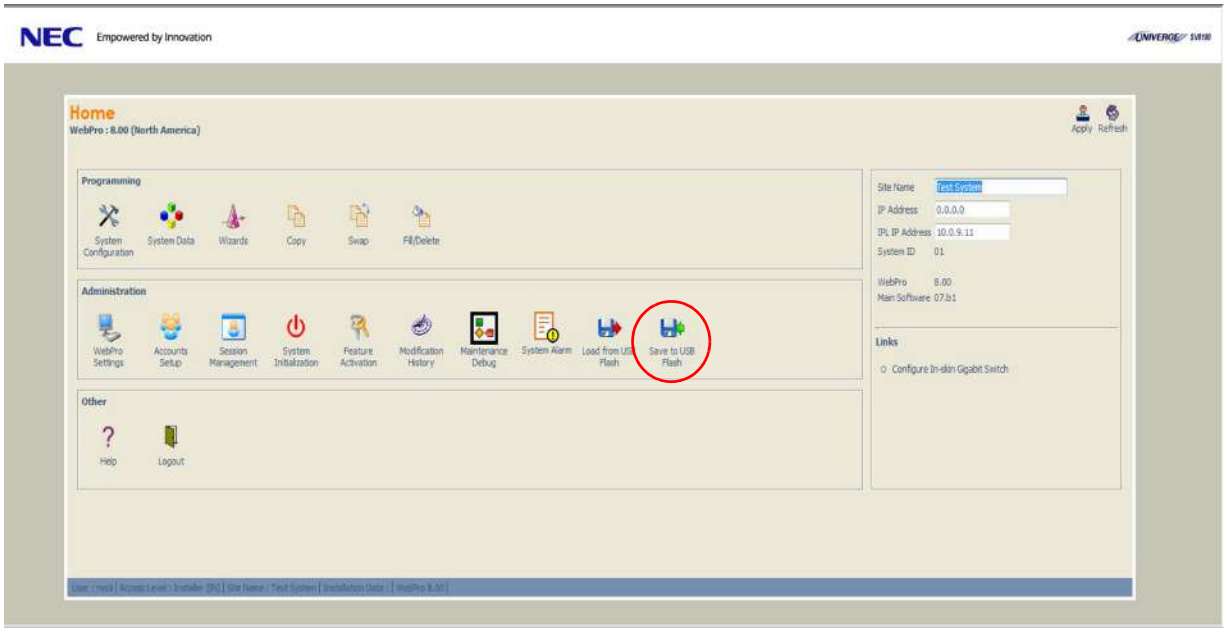
2 = IN (Installer Level)

3 = SA (System Administrator Level 1)

Operation:

1. The following home screen is displayed. Click on the "**Save to USB Flash**" icon.

Figure J-5 Save to USB Flash



2. The USB Save screen is displayed. Click the **"Start Save"** button.

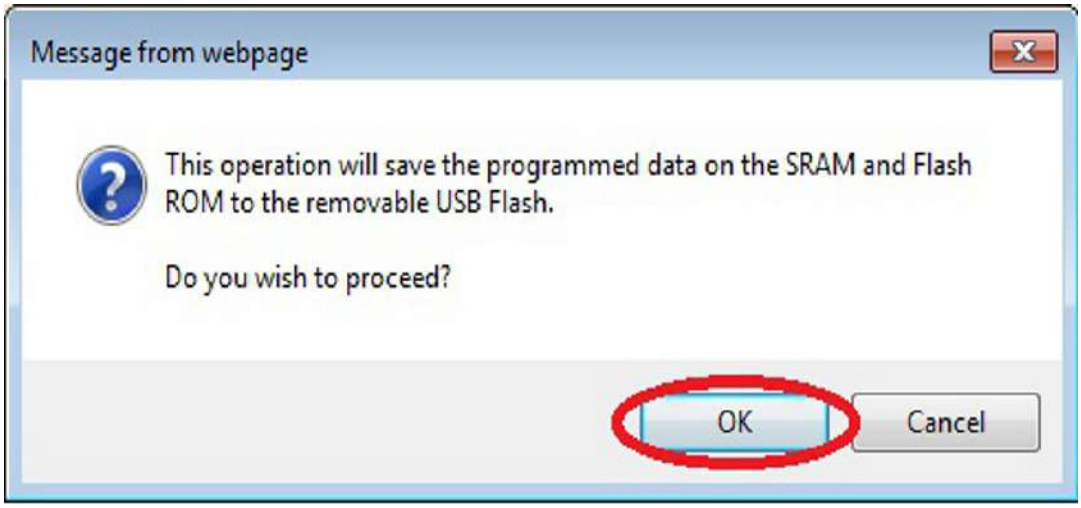
CAUTION

If the USB drive is not installed in the CPU, an error is displayed.

Figure J-6 Start Save Screen

3. The following popup window is displayed. Click the **"OK"** button.

Figure J-7 Proceed with Saving Data Screen

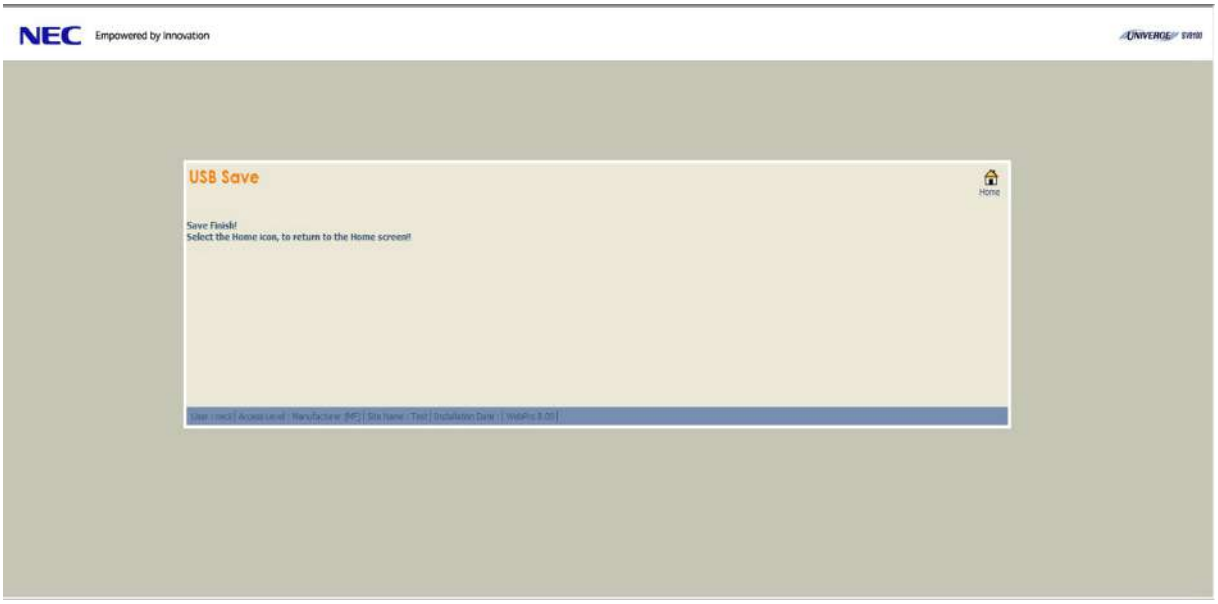


4. The following screen is displayed, and data is saved to the USB Flash Drive.

Figure J-8 Saving to USB Flash Drive

5. The following screen is displayed when data saving is completed.

Figure J-9 Save Finished Screen



Conditions:

- To perform a USB save, 32 MB of availability is required for a USB flash device.
- When moving to Save/Load screen, an error message will be shown if USB device is not connected.
- After USB backup starts, it cannot be interrupted.
- After USB load finishes, a system reset is needed to activate the loaded data.

Web Pro Load/Save to PC Feature

Appendix K

SECTION 1 OVERVIEW

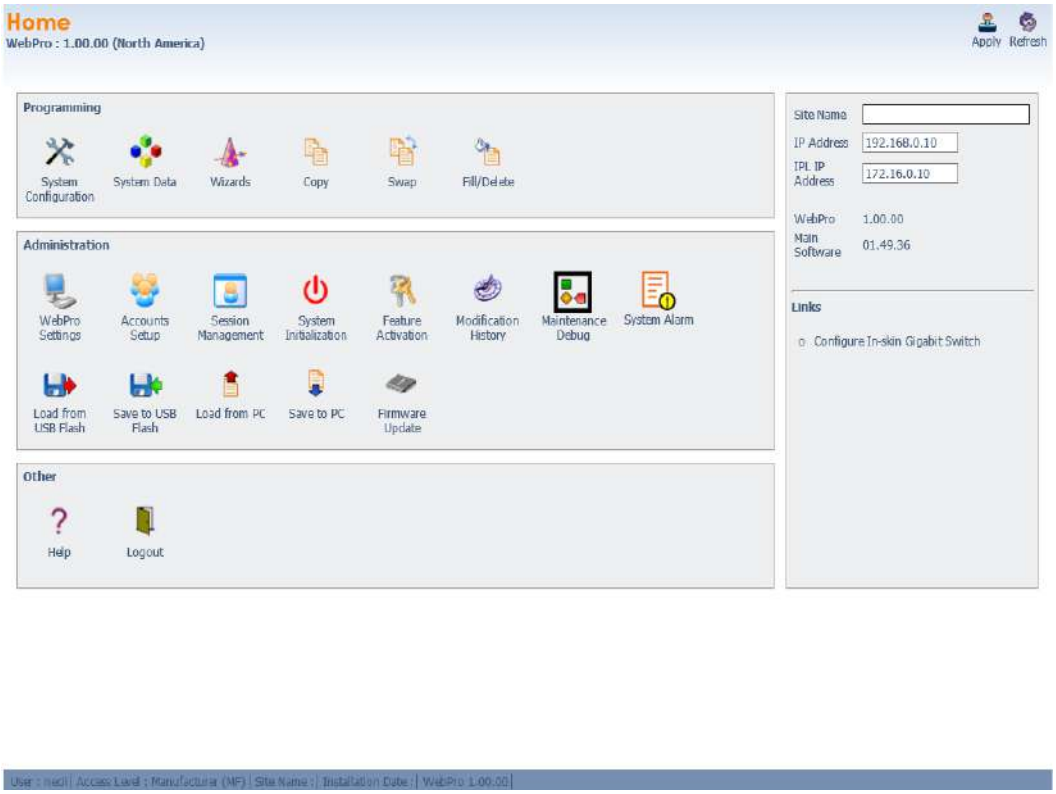
WebPro supports Load/Save feature of the PCPro database (configuration) file and Remote System Upgrade.

SECTION 2 OPERATION

2.1 WebPro Load/Save PCPro Configuration File

'Load from PC (=Upload)' and 'Save to PC (=Download)' icons are added on the Administration area of the WebPro Home Page screen.

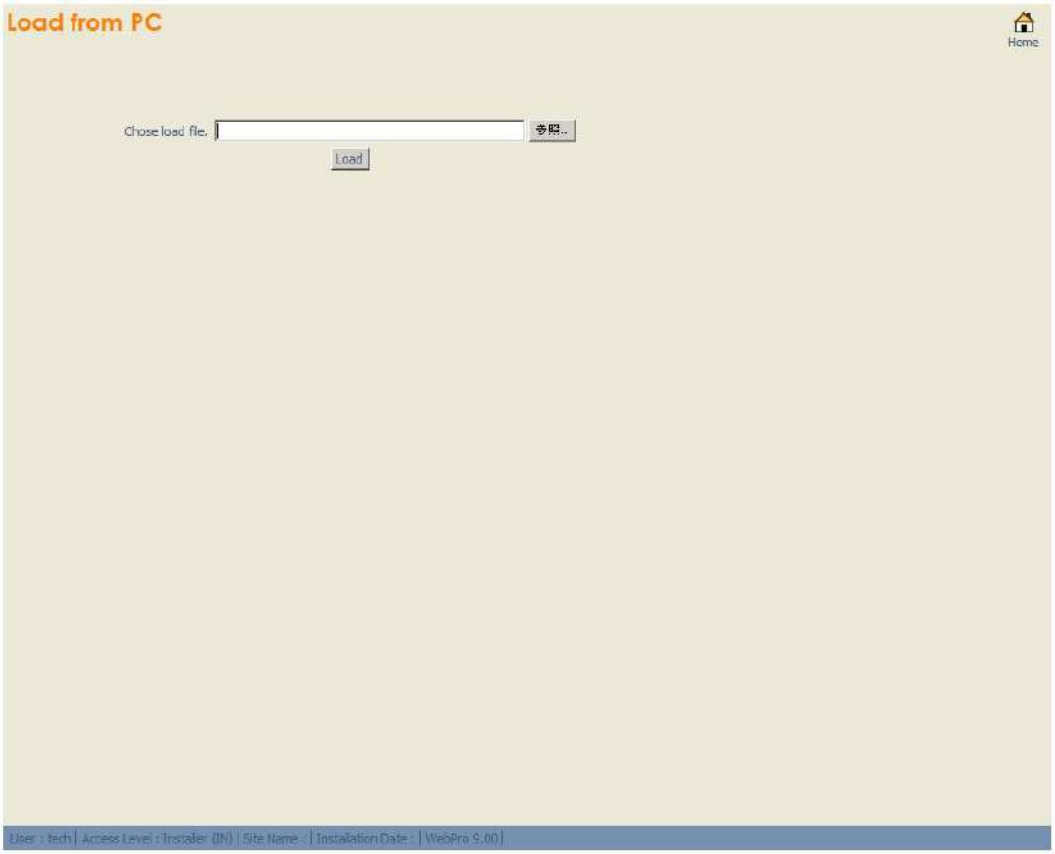
Figure K-1 WebPro Home Page Screen



2.2 Load from PC

1. Click the ‘Load from PC’ icon, and the following pop up screen is displayed.

Figure K-2 Load from PC Screen



2. Select the PCPro configuration file. The configuration file has to be decompressed by gzip format (.gz) before upload.
3. Click the ‘Load’ button that starts the configuration file upload.
4. After uploading is completed, ‘Load completed’ is displayed and the system reboots automatically.

2.3 Save to PC

1. Click the ‘Save to PC’ icon and the following pop up screen is displayed.

Figure K-3 Save to PC Screen

2. Click the ‘Save’ button that starts decompressed configuration file download.
3. When saving is completed, ‘Save completed’ is displayed.

Figure K-4 Save Completed Screen

4. Then click save (S) and enter the location of the local PC folder to save.

SECTION 3 CONDITIONS

- ❑ The configuration file has to be decompressed by gzip format (.gz) before upload.
- ❑ User level (PRG90-02-03) has to be 3 = SA (System Administrator Level 1) or higher.
- ❑ During loading or saving the configuration file, no other user can log in the system through PCPro, WebPro, or Phone Programming. On the other hand when someone is logging in the system, this feature does not work.


CAUTION

After completing the upload, the system reboots automatically, even trunk lines and extensions that are on call. So WebPro Upload should be performed when the system is not in use.

Store Statistical Information of RTP

Appendix L

SECTION 1 OVERVIEW

With Version 3000 or higher CPU software the Store Statistical Information of RTP feature supports downloading a RTP log file using PCPro, or to USB via TEL Pro. A RTP log file contains operational, system information, and critical information about RTP.

SECTION 2 OPERATION

Use the following procedure to download a DIM log file using PCPro

1. From the PCPro toolbar, select Tools > System > RTP Information. A RTP File Download dialog box appears. Refer to Figure L-1 RTP File Download.

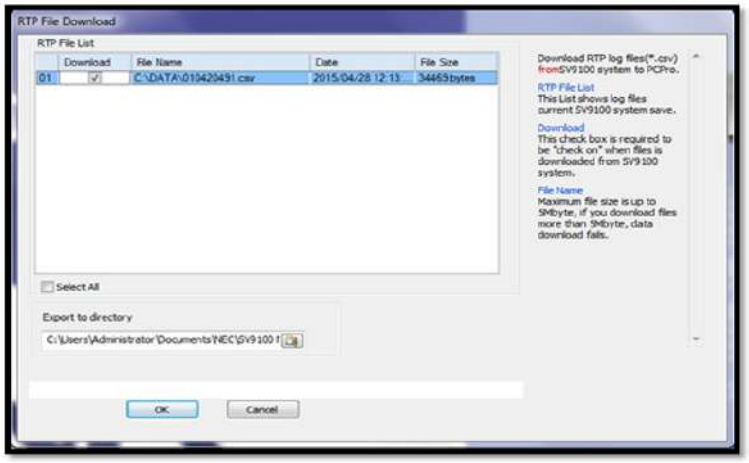
NOTE *The RTP File Download menu is only available when PCPro is connected to the system.*

Figure L-1 RTP File Download

NOTE

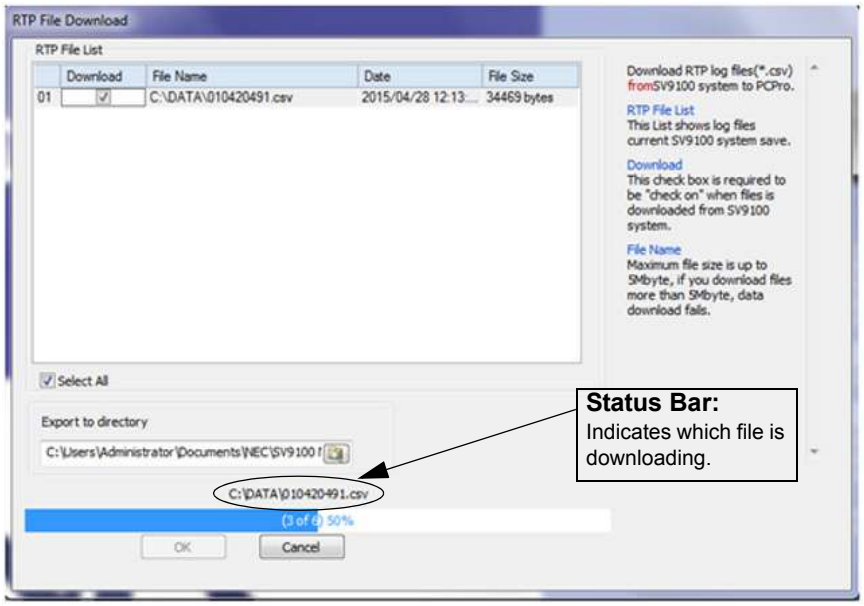
When the Download Dialogue runs, PCPro requests file information from "C:\\DATA.csv"". The Dialog Box displays all existing files with "C:\\DATA*.csv"".*

Figure L-2 RTP File Download Dialog Box



2. Check the Download box next to the file(s) to download from the system.
3. Click **OK**. PCPro begins downloading the selected file(s) from the system. A status line on the bottom indicates which file is being downloaded at that moment. Refer to Figure L-3 RTP File Download Dialog Box (showing status).

Figure L-3 RTP File Download Dialog Box (showing status)



Use the following procedure to download an RTP log file to USB using TEL Pro.

1. Insert USB Drive into GCD-CP10.
2. Enter Telephone Programming and go to PRG 90-03-03.
3. Enter 1 and Transfer.
4. The log is finished saving after “Saving RTP log” is cleared from display.

SECTION 3 DATA FIELDS

GUIDE TO FEATURE PROGRAMMING

Table L-1 Data Fields

Data Name	Data Outline
Start Date	The date when the call has started
End Date	The date when the call has ended
Ext/TRK Number	
Ext/TRK Number (Call Partner)	
Cumulative Cnt	Receiving RTP packet loss total
Max Fraction Lost	When the max packet loss rate and the average packet loss rate are the same value, the pocket loss is occurring constantly. When the max packet loss rate is high compared with the average packet loss, it is regarded as a temporary packet loss.
Average Fraction Lost	When exceeding 1%, reconsideration of the network environment is needed.
Number of Sent RTP packets	Number of Sent RTP packets
Number of Received RTP packets	Number of Received RTP packets
Cumulative Cnt (Remote)	Receiving RTP packet loss total of Remote side (IP Terminal, IP Trunk, etc.).
Max Fraction Lost (Remote)	The max packet loss rate of the remote side.
Max Round Trip Time (Remote)	The maximum round trip time of a packet.
Number of Sent RTP packets (remote)	The number of Sent RTP packets (remote)
Sender Statistical Information on System Side	
Sent Sender Report Ntp Timestamp	Sent Sender Report Ntp Timestamp

Table L-1 Data Fields

Data Name	Data Outline
Sender SSRC	DSP of VOIPDB determines SSRC at random at the time of channel opening.
Receiver Statistical Information on System Side	
Max Inter Arrival Jitter	The max interval of the arrival time of an RTP packet.
Average Inter Arrival Jitter	The average interval of the arrival time for an RTP packet.
Remote Sender SSRC	DSP of VOIPDB determines SSRC at random at the time of channel opening.
Receiver Information of Remote Side	
Average Round Trip Time	Average round trip time
Sender Statistical Information on Remote Side	
Sent Sender Report Ntp Timestamp	Sent Sender Report Ntp Timestamp
Sender SSRC	DSP of VOIPDB determines SSRC at random at the time of channel opening.
Receiver Statistical Information on Remote Side	
Max Inter Arrival Jitter	The max interval of the arrival time of an RTP packet.
Average Fraction Lost	When exceeding 1%, reconsideration of the network environment is needed.
Average Inter Arrival Jitter	The average interval of the arrival time of an RTP packet.
Remote Sender SSRC	DSP of VOIPDB determines SSRC at random at the time of channel opening.
Optional Information	
Type	0: ICM MLT/STD SIP 1: TRK SIP/H323 4: NET NETLINK 5: CCIS CCIS (IP) 6: ASP Aspire Net (IP)
Src systemID	Source System ID
Src port	Source Logical Port
Des systemID	Destination System ID
Des port	Destination Logical Port

SECTION 4 GUIDE TO FEATURE PROGRAMMING

This guide provides a list of associated Programs that support this feature.

Program/ Item No.	Description/ Selection	Assigned Data	Default	Level
11-10-54	Service Code Setup (for System Administrator) – Save Store Statistical Information of RTP RTP Information is saved on SD Card. Although saved every 1000 calls, it is saved instantly with input of this service code.	(Up to 8 digits)	671	1
20-07-35	Class of Service Options (Administrator Level) – Save Statistical Information of RTP Enable this option to give ability to enter service code 671 to save Statistical Information to SD Card.	0 = Disable 1 = Enable (COS 1~15)	COS 1~14 = 0 COS 15 = 1	1
90-03-03	Save Statistical Information of RTP Used to Save Statistical Information of RTP to USB Flash Drive.	1 → Transfer		

SECTION 5 RTP LOG INFORMATION

1. Stations

Table L-2 Stations

Terminal Type	Applied/Not Applied System *1	Applied/Not Applied System *2	Remarks
DT300 Series	No	No	
DT400 Series	No	No	
DT700 Series	Yes	No	
DT800 Series	Yes	No	
Bluetooth Handset	No	No	
SLT	No	No	

Table L-2 Stations

Terminal Type	Applied/Not Applied System *1	Applied/Not Applied System *2	Remarks
Standard SIP Phone	Yes	Yes	
UT880	Yes	No	

*1 - Statistical RTP Information is available if call uses VoIPDB.

*2 - Statistical RTP Information is available if terminal supports RTCP.

2. Trunks

Table L-3 Trunks

Trunk Type	Applied/Not Applied System *1	Remarks
Analog Line	No	
ISDN (BRI)	No	
ISDN (PRI)	No	
SIP Line	Yes	
H323	Yes	
CCIS	Yes	
NetLink	Yes	

*1 - Statistical RTP Information is available if remote side is supporting RTCP.

Conditions

- ❏ When RTP is closed and opened by hold, transfer, etc., it is saved as a separate call.
- ❏ The saved RTP information is written to file on SD Card every 1000 calls, once it is saved it is deleted from CPU Memory.
- ❏ When a write error occurs during save to SD Card, the writing is canceled, and deleted from CPU Memory.
- ❏ The CPU considers the saving to SD card a low system priority, and does not affect other services.

- When saving the RTP Information to SD card, and 30 MB or less is available on SD card, previous RTP files are deleted until 30 MB or more is available. This is required to allow the 21 MB for CPU Remote Upgrade.
- When the remote side does not support RTCP, only the RTP information of the system side is available. All RTP information on the remote side will be set to 0.
- The RTP Statistical information of VoIP on the Secondary side of Netlink will be saved by the Primary system.

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